Covering Interactive & Multimedia Entertainment JULY 1994

# COMPUTER GAMING WORLD

THE #1 COMPUTER GAME MAGAZINE



EXCLUSIVE COVERAGE!

## DOOM II

100 GAMES RATED

## Feature Reviews

*Pagan Ultima VIII*
*Dragonsphere*
*Great Naval Battles II*
*AEGIS*

## In-Depth Strategies

*F-14 Fleet Defender*
*Aces Over Europe*
*Merchant Prince*

## Sneak Preview

*Aces of the Deep*

## Secrets of the Computer Game Developers

$3.95 USA $4.95 Canadian

07

0 71486 01143 9

New!

# Spear of Destiny Mission Disks!

**Mission 2: Return to Danger**

**Mission 3: Ultimate Challenge**













## The Action Continues. . .

*in two brand new missions for the fantastic virtual reality game - Spear of Destiny! Now you can enjoy more of the heart-pounding, adrenaline-pumping excitement you loved in the original game! These terrific new missions feature all new floors, guards, bosses, graphics and sounds!*

## New Challenges!

*Each mission features 21 exciting new levels, with new enemy guards, new treasures and a whole new fortress to penetrate. New puzzles require thought as well as quick reflexes. Fantastic new art and unbelievable digital sound make these the most exciting games ever! Get the latest Spear of Destiny missions today!*

FormGen Inc. 7641 East Gray Road, Scottsdale, AZ 85260 (800) 263-2390 (905) 857-4141

*Circle Reader Service #143*

"THUMBS UP!"
*- Johnny L. Wilson*
*Computer Gaming World*

Carey DeVuono's

# Hollywood Mogul

## RUN YOUR OWN HOLLYWOOD MOVIE STUDIO

Past the studio gate with your name on it lies your personal dream factory.

**Go for it:**
- Buy original scripts and blockbuster bestsellers or steal ideas for yourself.
- Set vastly padded production budgets.
- Choose enough special effects to hide the lack of plot.
- Play God with producers and directors.
- Make and break superstars' careers, or enslave stars of tomorrow.
- Shoot on Sound Stage 10, in London, or on the slopes of the Himalayas.
- Have marketing and distribution grovel at your feet.
- Attend your world premieres.

**Grab it all:**
- Sit back and watch the grosses roll in.
- Snag that Beverly Hills mansion, Malibu beach house, 40,000 acres in Montana or your own Greek island.
- Collect the most overpriced art on earth.
- Find you can't live without that 4th studio jet.
- Keep the biggest names in Hollywood waiting outside your studio gate.

**Or Gamble it all!**
- Sell your shirt just to stay alive.

If you've got what it takes to make it in Hollywood...
*Carey DeVuono's Hollywood Mogul* is gonna take everything you've got.

*Circle Reader Service #60*

To purchase, visit your local software retailer, or call 1-800-350-5550.
Available For IBM And Compatibles. MS-DOS and Microsoft Windows versions available.
600k required, mouse suggested, 3 meg hard disk space required.

DeVuono DeVuono GAMES

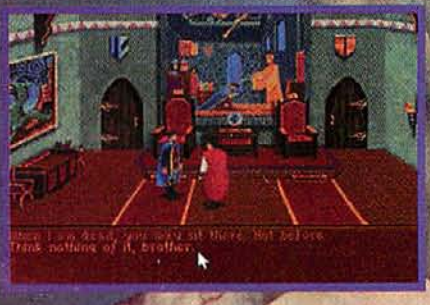
*Carey DeVuono's Hollywood Mogul* is a trademark of DeVuono DeVuono Games, all rights reserved. Other brands and product names are trademarks of their respective holders.

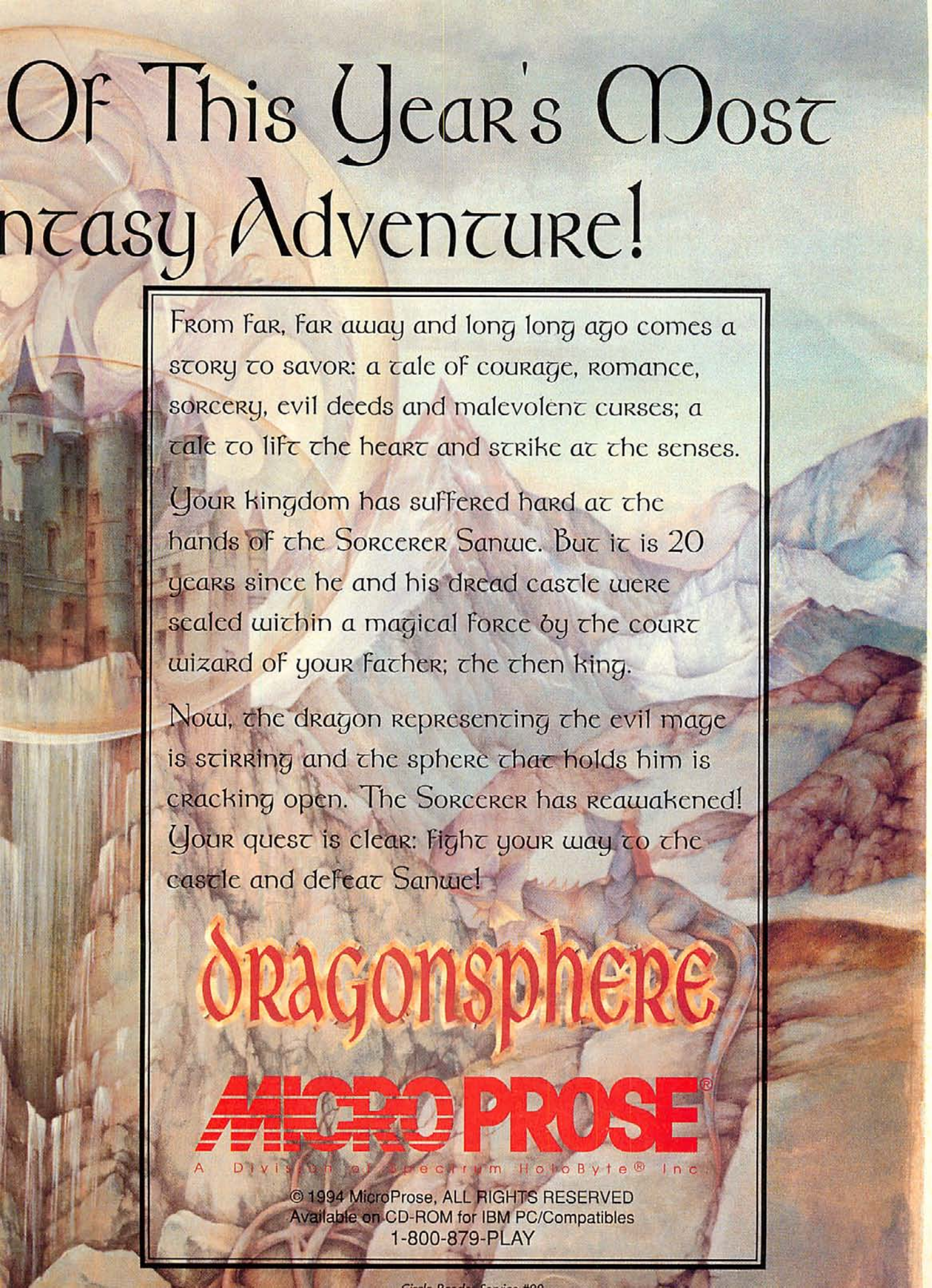
# Fall Under The Spell
# Challenging Fa

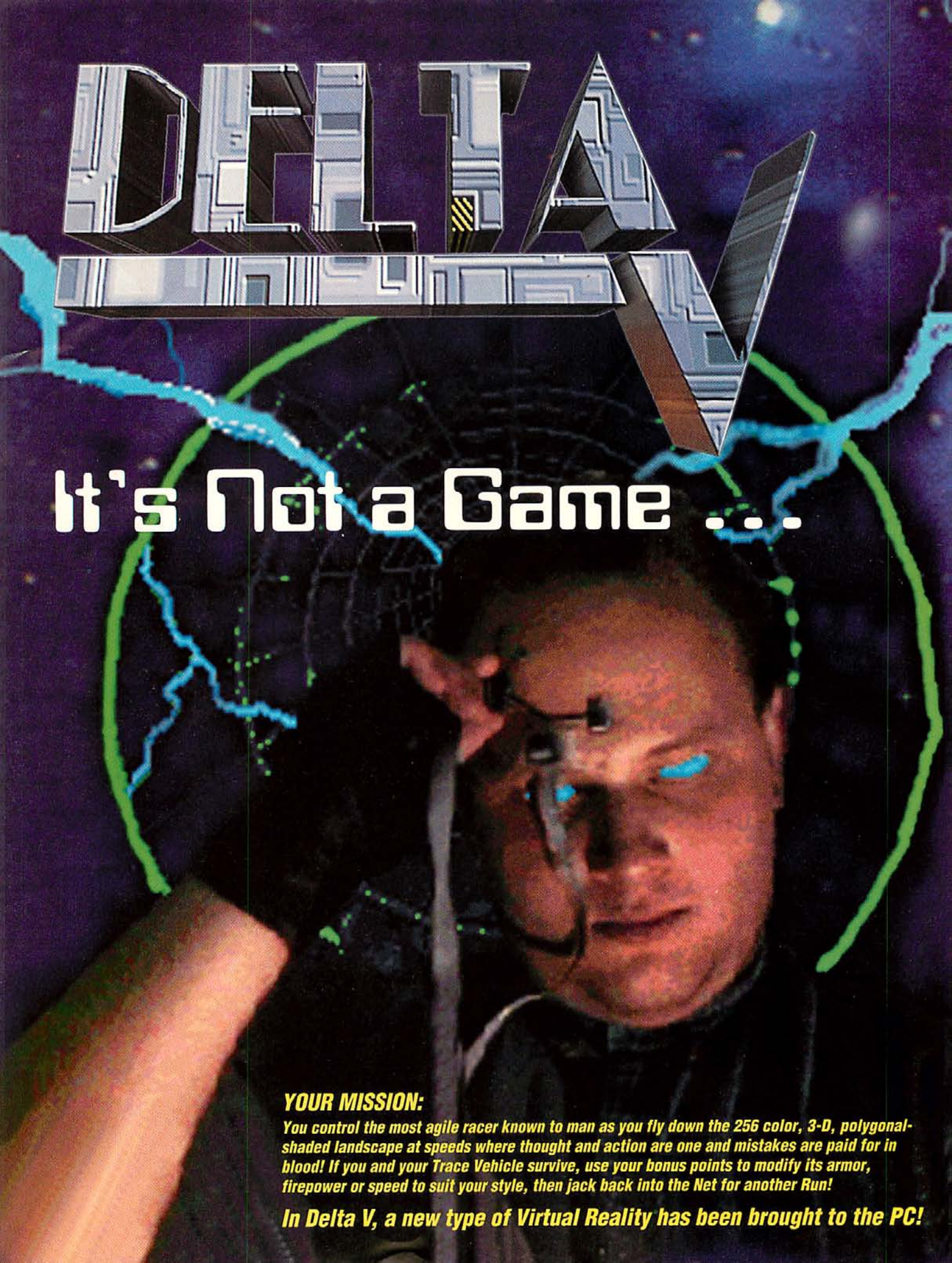


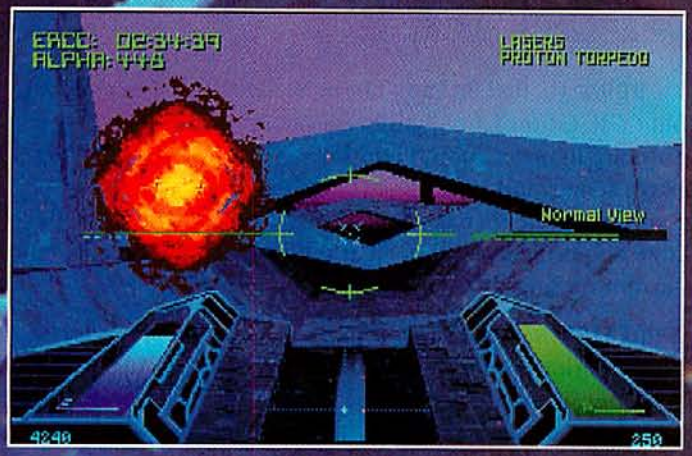





Of This Year's Most
ntasy Adventure!
From far, far away and long long ago comes a story to savor: a tale of courage, romance, sorcery, evil deeds and malevolent curses; a tale to lift the heart and strike at the senses.
Your kingdom has suffered hard at the hands of the Sorcerer Sanwe. But it is 20 years since he and his dread castle were sealed within a magical force by the court wizard of your father; the then king.
Now, the dragon representing the evil mage is stirring and the sphere that holds him is cracking open. The Sorcerer has reawakened! Your quest is clear: fight your way to the castle and defeat Sanwe!
Dragonsphere
MICROPROSE®
A Division of Spectrum HoloByte® Inc.
© 1994 MicroProse, ALL RIGHTS RESERVED
Available on CD-ROM for IBM PC/Compatibles
1-800-879-PLAY


DELTA V
It's Not a Game ...
YOUR MISSION:
You control the most agile racer known to man as you fly down the 256 color, 3-D, polygonal-shaded landscape at speeds where thought and action are one and mistakes are paid for in blood! If you and your Trace Vehicle survive, use your bonus points to modify its armor, firepower or speed to suit your style, then jack back into the Net for another Run!
In Delta V, a new type of Virtual Reality has been brought to the PC!










L6 12-09-2147 - 17H34.48

"So chummer, you want to know about runnin?

"The Net's the most dangerous cyber-dream you'll ever have, 'cept it's not a dream. You gotta be ruthless and quick, huggin' the lattice like an Olthan lungworm on a Borian air-grazer. Once you jack in, it's just you and your Trace.

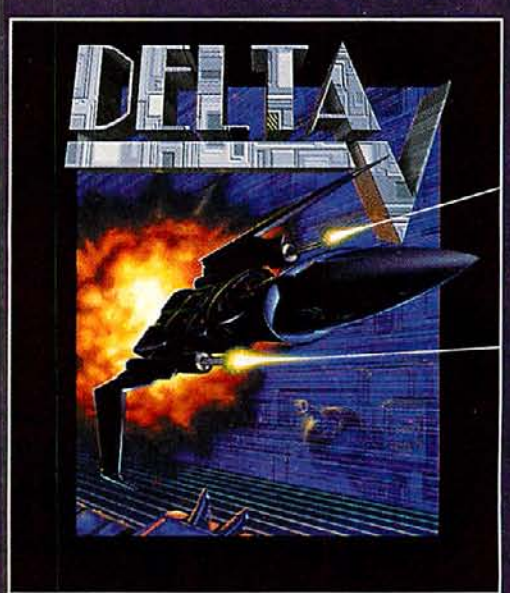
"Like I always said, Netrunnin' is like a drug, the speed gets you higher than a 'ject of Cephilene Blue, but a mistake'll leave you deader than a jacked out straightliner.

"That chum, is as permanent as it gets . . ."

END

—GROTHAN JHIR, ex-Netrunner.

# . . . It's a State of Mind




BETHESDA SOFTWORKS™

**Currently Available on IBM PC**

**VGA, minimum 386/33 processor (486/33+ really cooks!), minimum memory 590K Ram, 2MB EMS memory and high density disk drive required. Supports: Roland™, SoundBlaster and Gravis Ultrasound.**

Copyright© 1994 Bethesda Softworks. All rights reserved. Bethesda Softworks and Delta V are trademarks of Media Technology Limited. All rights reserved.



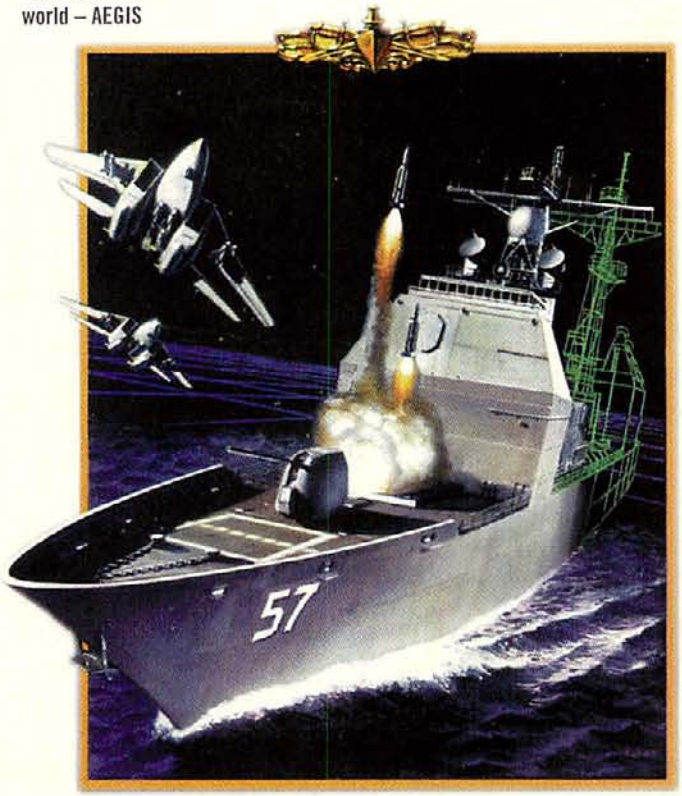

146
"Under the Hood" – CGW's Tech Editor repairs your fried circuits



# COMPUTER GAMING WORLD

JULY 1994

88
The most powerful warship in the world – AEGIS




## FEATURES

**20 DOOM II: Hell On Earth** Mesquite, Texas may not be hell, but *CGW* Editor Chris Lombardi visited the city's own id Software in order to find out the secrets of their upcoming DOOM sequel and to battle BFG to BFG with John Romero. Fortunately, he managed to survive long enough to file this story about the past, present and future of computerdom's current darlings (or is it damnings?).

**26 DESIGNING PERSONS** Once a year, San Jose becomes Florence during the Renaissance for more than 1,000 computer game designers and programmers. The creative brain trust of the industry gathers to share ideas, techniques and philosophy, as well as to swap stories about the *old* days. In our coverage of the 8th Annual Computer Game Developers Conference, we summarize our favorite sessions.

## ADVENTURE/ ROLE-PLAYING

**35 SCORPIA'S STING** *CGW*'s official avatar challenges Origin's PAGAN: ULTIMA VIII

**38 THE SCORPION'S TALE** Wise counsel on PAGAN: ULTIMA VIII from *CGW*'s Prime Adventuress

**46 MICROPROSE'S DRAGONSPHERE** Allen Greenberg calmly explains why politics and thaumaturgy don't mix

**52 SIERRA'S GOBLINS 3** Jeff James teams up with his on-screen alter ego to file the scoop on the latest puzzle-filled adventure

**64 MEGASOFT'S DISCIPLES OF STEEL** Petra Schlunk delineates details on a most detailed computer role-playing game

**68 INTERPLAY'S ASTRO CHASE 3D** Alien-blasting and asteroid-blitzing through arcade space with Christopher Breen

## SIMULATION

**79 BOGEY'S BAR & GRILL** Our new simulation column debuts as Tom "KC" Basham dips his wings to on-line multi-player games

**84 DYNAMIX' ACES OF THE DEEP** Up Periscope! with Kevin Turner for some in-depth sneak preview coverage

**88 SOFTWARE SORCERY'S AEGIS: GUARDIAN OF THE FLEET** Declassified data and state-of-the-art graphics put Terry Coleman on the bridge of the world's most powerful warship

**92 FLYING MICROPROSE'S FLEET DEFENDER** A top-notch tactical briefing from Tom "KC" Basham

**101 SURVIVING DYNAMIX' ACES OVER EUROPE** Michael Rymaszewki tells new recruits how to become well-decorated sim pilots in a WWII aerial campaign

# STRATEGY/ WARGAMES


**107 BROADSIDES & GRIPESHOT** Alan Emrich tries to bridge the gap between boardgames and computer games

**110 AVALON HILL'S KINGMAKER** The Wars of the Roses are no longer a winter of discontent as Terry Coleman reviews this medieval wargame

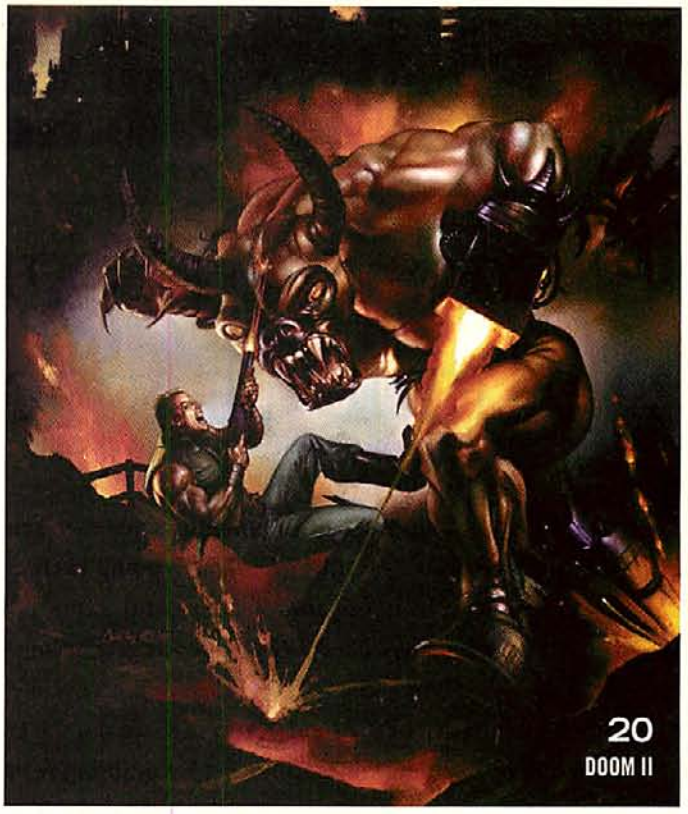
**112 SPECTRUM HOLOBYTE'S FIELDS OF GLORY** M. Evan Brooks refuses to meet his gaming Waterloo in reviewing this U.K. import

**114 SSI'S GREAT NAVAL BATTLES II: GUADALCANAL** Josh Bruce surveys the slot for maritime enemies while reviewing this simulation/wargame

**118 ELECTRONIC ARTS' POWER POKER** Alan Emrich claims it isn't Risky Business to tinker with the rules in this new gambling game

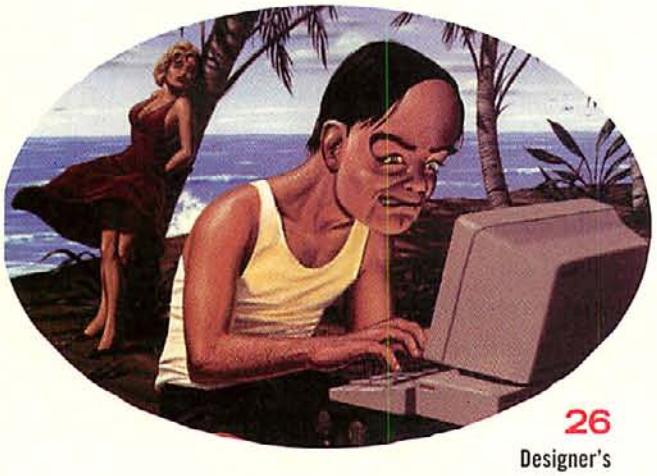
**122 MASTERING ROMANCE OF THE THREE KINGDOMS 3** Game-winning wisdom from warrior-king Josh Bruce

**128 ENRICHING MERCHANT PRINCE** Tim Carter unleashes his Machiavellian masterstrokes on our unsuspecting readership

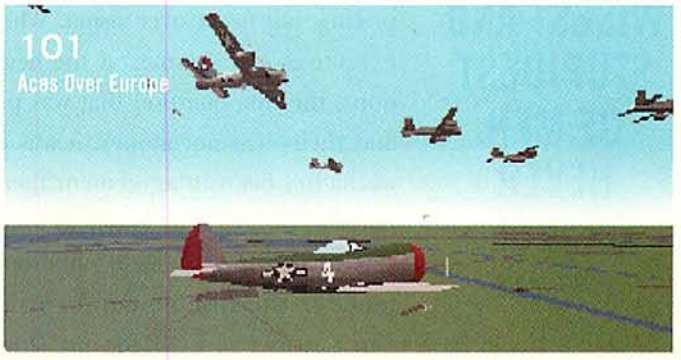



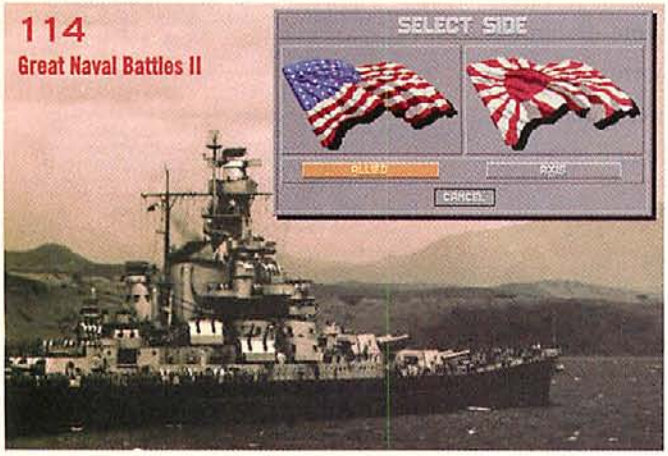
20
DOOM II

Julie Bell's oil painting of a DOOMed soldier bears the distinctive qualities of her famous mentor, Boris Vallejo.



26
Designer's Dilemma




## DEPARTMENTS


**8 LETTER FROM THE PUBLISHER** Change

**10 EDITORIAL** Check Out The Remodel

**12 INTERFACE** Our Readers Speak

**16 READ.ME** Late Breaking News

**134 OPPONENTS WANTED** Free classified ads for gamers

**136 SHAREWARE SHOWCASE** Hot Shareware Games

**140 HEX, BUGS AND ROCK 'N ROLL** Game Technology

**146 UNDER THE HOOD** Help With Hardware

**154 NOW PLAYING** First Look At New Games

**161 HALL OF FAME** Top Games of All Time

**162 SCORE** Readers Rate The Top Games

**164 PATCHES** Game Files To Exterminate Bugs

**166 THE RUMOR BAG** (Baggus Baseballus)

## From the Publisher



# There's No Progress Without Change

Last August Golden Empire Publications sold *Computer Gaming World* magazine to Ziff-Davis Publishing. In the months since then one question has plagued me wherever I go: "Are they (Ziff-Davis) going to change the magazine?", the clear implication being that readers and game publishers did not want changes made. They liked *CGW* as it was/is. The simple answer to the question is an unqualified "no!", the complex answer is an equally unqualified "yes!"

From the perspective of the type of coverage we do, the editorial philosophy that backs our content, the dedication to honest hard-hitting reviews, and the realization that without the trust of our readers we don't have anything, nothing will change.

**ONLY THE WISEST AND STUPIDEST OF MEN NEVER CHANGE.**
*– CONFUCIUS*

Over the course of negotiations, Ziff-Davis and Golden Empire Publications struggled mightily over value and pricing, but never over vision. When I met with Ziff-Davis executives last summer at the beginning of the negotiations, the one question that was paramount on my mind and theirs was not money, it was editorial philosophy. If we hadn't been in agreement there, money would never have been discussed. The deal would have died then. Ziff-Davis has a strongly held philosophy that editorial excellence is the fundamental cornerstone of successful publishing. If you have been a reader of *CGW* for any length of time, you realize that that is our philosophy as well. This will never change.

On the other hand, there is no progress without change. And we will change. Some of that change you see in your hands. I am very proud to present to you the newly redesigned *Computer Gaming World*. It is more attractive, easier to use, and more informative. Calling upon talented people with years of magazine design experience, we sought to create a layout that is more colorful, more informative, more intelligent, and better suited to serve you, the community of computer gamers that turn to *Computer Gaming World* each month for the best in computer game coverage. Let us know what you think.

ONWARD,

Russell Sipe

RUSSELL SIPE


JULY 1994, NUMBER 120

**COMPUTER GAMING WORLD**

| | |
|---|---|
| Publisher | Russell Sipe |
| Associate Publisher | Jonathan Lane |
| Editor-in-Chief | Johnny Wilson |
| Editor | Chris Lombardi |
| On-Line Editor | Alan Emrich |
| Managing Editor | Ken Brown |
| Technical Editor | Mike Weksler |
| Assistant Editor | Terry Coleman |
| Art Director | Susan Zurawik |
| Graphic Artist | Jack Rodrigues |
| Production Assistant | Christine Kloss |
| M.I.S. Manager | Gene Allen |
| Advertising Manager | Lee J. Uniacke |
| Advertising Sales Coordinator | Kathy Garcia |
| Account Representative | Marci Yamaguchi |
| Contributing Editors | Scorpia *(Adventure Games)*, Evan Brooks *(Wargames)* |



Contents are copyrighted by Ziff-Davis Publishing Co., 1994.



**Subscription Rate:** The subscription rate is $27.94 for a one year subscription (12 issues). Canada and all other countries add $11.00 for postage. Airmail subscriptions are $78.00 per year. Canadian GST registration number is R123669673. Payment must be in U.S. dollars made by check or money order drawn upon a U.S. bank. Visa, MasterCard, AMEX accepted.

**Subscription Services:** For subscription service questions, address changes or ordering information, call toll free (800) 827-4450 within the U.S. and Canada. All other countries call (303) 447-9330 or fax to (303) 443-5080 (international subscribers only) or write to Computer Gaming World; P.O. Box 57167, Boulder, CO 80322-7167.

**Back Issues:** For back issues (subject to availability), $6.00 per issue ($8.00 outside the U.S.), send check, money order or credit card information to Back Issues Dept., Ziff-Davis Publishing Co., P.O. Box 53131, Boulder, CO 80322-3131.

Psalms 9:1-2

CompuServe (76703,622)
America On-Line: CGW
Prodigy: EXPT40B
GEnie: CGW
Internet: 76703.622@compuserve.com
Telephone: (714) 283-3000
Fax: (714) 283-3444

**For advertising information only, call:**
**Lee J. Uniacke, (714) 283-3000 x41**

Printed in the U.S.A.

# FALCON NORTHWEST ANNOUNCES A NEW POWER FOR A NEW AGE OF GAMING: THE MACH Vp- THE WORLD'S FIRST PENTIUM POWERED GAMING PC!

# MACH V



**Now there are 3 models of the ultimate gaming machine! Fill your need for speed!**

***FAST... 40 VGA FRAMES PER SECOND!***

The MACH V Basic: for performance on a budget

Intel 486 DX/2-50™ MHz processor, 4 Megs of RAM, 255 Meg hard disk

**$1,995**

***FASTER... 45 VGA FRAMES PER SECOND!***

The MACH V: The original with some new twists

Intel 486 DX/2-66™ Processor, 8 Megs of RAM -NEW!, 255 Meg hard disk

**$2,495**

***UNREAL... 50 VGA FRAMES PER SECOND!***

The MACH Vp Pentium: the fastest game machine on the planet!

Intel Pentium™ processor, 512K of static RAM cache expandable to 2 Megs, 8 Megs of RAM, 425 Megabyte hard disk w/256K cache

**$3,495**

## Standard Features:

100% Compatible with All IBM™ PC Software
Falcon VESA Local Bus Motherboard, 256K Cache, AMI BIOS
VESA Local Bus Graphics Board with 1 Meg- 16.8 Million Colors!
Falcon VESA Local Bus Hard Drive Controller Card -4 megs/sec!
RAM expandable to 32 megabytes
TEAC 1.2 & 1.44 Floppy Drives
MPC™ Level 2 Compliant 250ms Double-Speed CD-ROM Drive*
SoundBlaster PRO™ with Multimedia Encyclopedia on CD-ROM
Shielded Multimedia Speakers with Bass Boost
CH Products FlightStick PRO™ 4 Button Joystick
CH Products Automatic Speed Sensitive Dual Gameport
Mini-Tower Case with 250 Watt Power Supply
Two Cooling Fans with Temperature Sensing
14" Non- Interlaced SVGA Monitor, .28dp, Edge-to-Edge Display
101 Key Keyboard with Dustcover
MS-DOS 6.2™ & MS-Windows 3.1™ - NEW
3 Button Serial Mouse
UL, CSA, TUV,VDE & FCC Class B Approvals
One Year Parts & Labor Warranty
One Year On-Site Service Policy
* Not Included with MACH V Basic model



## But don't take our word for it . . .

"if you want to go all out for games, the Falcon is the best bet for your money."
-Computer Gaming World

"They [Falcon's techs] are always available and will spend time to work with their customers. The system is just perfect for our needs and makes running simulations a real pleasure."
-P.C. Combat Simulations Magazine

"My Falcon MACH V lets me run all my games with the detail settings on high and I am still able to scream through the frames."
-Keith Stadler, Wilmington, NC

"Compared to the MACH V, XXXXXXX 2000's [DX2/66] system ran like @#%&!"
- Gary McMillan, Fairbanks, AK

"Every game I've bought, every program I've bought, has worked perfectly on the MACH V!"
- Perry DiMarco, Howard Beach, NY

"It screams!"
-Paul Gentry, Portland, OR

# THE FALCON MACH V: THE ULTIMATE GAMING MACHINE™

**THE MACH V IS PERFECT WHETHER YOUR MACHINE IS A DEDICATED GAMER, OR YOU ALSO USE IT AS A BUSINESS, SCHOOL, OR HOME COMPUTER. YOU CAN CUSTOM FIT THE MACH V FOR YOUR MISSION WITH THESE UPGRADE PACKS:**

BUSINESS PRODUCTIVITY PACK:
WINDOWS FOR WORKGROUPS 3.11
CITIZEN GSX-220 24 PIN PRINTER
250 MEGABYTE TAPE BACKUP
$375

STUDENT PRODUCTIVITY PACK:
CITIZEN GSX-220 24 PIN PRINTER
MICROSOFT BOOKSHELF CD-ROM W/DICTIONARY,THESAURUS,&MORE
$275

EXTREME SOUND PACK:
SOUNDBLASTER 16 ASP
SONY SATELLITE/SUBWOOFER SPEAKERS
(YOU GOTTA HEAR THESE!)
$275

ENHANCED VISION PACK:
MAG MX15 - 15" 1280X1024
DIGITAL MONITOR, SUPER HI-REFRESH
1 MEG VIDEO MEMORY UPGRADE
$325

**FALCON NORTHWEST**

**COMPUTER SYSTEMS**

263 South Bayshore Dr. Coos Bay, OR 97420
Ph: (503) 269-0775 Fax:(503) 267-2575

**To Order Call:**
**1-800-258-6778**

VISA & MasterCard Accepted
Financing Available On Approved Credit.

Trademarks are the property of their respective owners.

*Circle Reader Service #141*



# Editorial Remodeling

**by Johnny L. Wilson**

As families grow, their needs change. Many times, these changing needs cause parents to be confronted with an uncomfortable choice: buying a more functional house or remodeling their existing home. Whether you add new bedrooms, a family room, or an additional bathroom to accommodate the more demanding hygiene of the dating teenager, you are meeting the changing needs of your family.

*Computer Gaming World*'s family is getting larger as the magazine both grows in pages and circulation. Though every writer/editor likes having a larger audience to serve, the newest readers of *CGW* have different needs than the hard-core hobbyists who supported us through our first decade. We have always had a shared context with most of our long-term, loyal readers, since they, like most of us on the editorial staff, came into the computer game hobby from the board game or role-playing side. We could assume certain conventions in terminology, design expectations and even, to some degree, educational background. Many of them told us that we were so synchronized with their needs and taste that they read each issue from cover to cover.

Indeed, we had so much of a shared context with those of you who comprised our early readership that we could argue that you would appreciate the same kinds of humor, coverage, and critical approaches that we valued. We felt like we were all part of the same community of gamers. This assumption led us to avoid certain journalistic techniques as being too patronizing for our readership.

Our philosophy has always been to give readers enough information to help them make up their own minds. We didn't want to give numerical ratings for the games that would be based on the opinions of editors when we could compile ratings from our readers. We left the scoring of games to you and tried to publish the most comprehensive articles possible.

Now, the magazine has grown to such a size that even our long-term readership doesn't have time to read the magazine from cover to cover, and the numerical growth in readers has brought us a bevy of relatively new gamers that really want the editors' guidance in terms of game ratings. The frustration of the last group was really brought home to us when we were examining the *CGW* Poll Cards from a recent issue. A significant number of cards asked us to start rating games at the end of each review.

So, as a result of these changes and requests, we were faced with three new challenges. First, helping all readers find what they want easier. Second, re-emphasizing the sense of community that we feel between ourselves and our readers. Third, providing help for the newer gamer in making purchasing decisions. In short, we needed to remodel our house so that it would serve our larger family more efficiently.

We're addressing the ease-of-use issue with color coding, sections dedicated to core genres of games, and a simplified Table of Contents. Each of the major genres of interest to our readers will have regular sections that begin with a column of special interest to like-minded gamers and a sidebar that presents the latest news within that genre. Established readers will recognize the columns by Scorpia (Adventure/Role-Playing) and Alan Emrich (Strategy/Wargaming), but we have also added Tom Basham's column for simulation buffs. We trust these new sections will be helpful for everyone.

We're addressing the community question in several ways. The expanded READ.ME section is designed to keep us all informed on late-breaking information that could well be vital to the power player, our core reader. Everything from our new "Beta Bits" section about early versions of upcoming games and our "Affairs in the Cyburbs" listing of exciting on-line activities to our new "Pipeline" feature that gives you the tentative release dates of upcoming games. We are also adding "Under The Hood," a troubleshooting column to help both new and experienced gamers get more performance out of their gaming hot rods, and "Hex, Bugs and Rock 'n Roll," a column that explores game technology and the personalities behind it.

Finally, we have modified our position on editorial game ratings. Your letters have won the day. We hope that the provision of game ratings based on the familiar "five star" system will not discourage you from reading our detailed articles, but we have to meet the needs of those readers who keep telling us that they want us to give them a "review-at-a-glance" approach to game reviews. Starting this issue, you will find a summary box at the end of each review, each containing a one-to-five star rating and a Pro/Con statement on the game. While the reviewers will offer input on the ratings, the final decision will be based upon a poll of the editorial staff. The results should be both interesting and informative.

The iconic ratings symbolize the following editorial verdicts:

- ★★★★★ Potential Benchmark
- ★★★★ Excellent Game With Limitations
- ★★★ Average — Mainly For Genre Enthusiasts
- ★★ Weak — Has Significant Problems
- ★ Abysmal

In short, we've just remodeled our house. We hope you like what we've done with it.



Ultra-detailed, smooth
**scrolling VGA graphics**



Explosive cinematics and
**sound tracks**



Supports all major sound
**cards and game controllers**



27 enormous levels, each with
**at least one boss ship**



This ain't no dinosaur game!

# SO MANY TARGETS. SO LITTLE TIME!

# RAPTOR

## · CALL OF THE SHADOWS ·



**There are times when the best weapons just aren't enough.** To answer the Mega Corp's call, you'll need nerves of steel, an itchy trigger finger, and the strength to stand till the end.

Your equipment: The Raptor, a super-tech bird of prey with enough state-of-the-art firepower to crush any foolhardy opposition. As if twin machine guns that can rip holes through 6-inch steel plate weren't enough, the Raptor can be upgraded with 14 hard-core weapons that go beyond intense, straight to overkill!

Your mission: Kill for cash, and leave nothing standing in your wake!

If your looking for a game with unbelievable graphics, fierce combat, and a pulse-pounding sound track, *Raptor: Call of the Shadows* is all that and more!

**Grab your gear. Head for the flight deck. *Raptor* awaits!**

**CALL 1•800•GAME•123 IT'S TOLL FREE**
***(We're here all the time!)***

For the cost of shipping and handling, only $5.00, you'll receive the first mission. Or download the first mission and pay no shipping and handling. Call the Software Creations BBS and check out the FREE Apogee file section. The BBS phone lines are:

| (508) 365•2359 | (508) 368•7036 | (508) 368•4137 |
|---|---|---|
| 2400 BAUD | 9600-14.4K | 14.4-16.8K |

*Further episodes are sold separately and can be purchased by calling Apogee's toll-free number.*

**APOGEE SOFTWARE • THE HEIGHT OF GAMING EXCITEMENT**

*Raptor: Call of the Shadows* requires an IBM™ or 100% compatible 386 or better computer with 2 MEG RAM (4 MEG recommended), a VGA graphics card and 12 MEG free space on a hard disk drive. Joystick and mouse are optional. Supports all major sound cards.

All trademarks are the property of their respective owners.

CYGNUS STUDIOS

APOGEE™ SOFTWARE

P.O. BOX 496389
GARLAND, TX 75049



A002CGW

# Interface

LETTERS FROM CGW READERS

### HEX, BUGS AND ROCK 'N ROLL

I don't know if anyone else is interested, but I'd like to know more about how the games are developed — programming, graphics and sound — that sort of thing.

*W. Dwinnell*
*Philadelphia, PA*

How about more in-depth info about game development techniques? A regular column on this would be great.

*Phil Dobranski*
*Garland, TX*

*As we prepared for this issue's complete redesign, we spent a considerable amount of time thinking about why we do what we do and how we could better meet the needs of our readers, both those who have been with us for a long time and those who were just discovering us as a result of our increased distribution over the last year. One of the things we decided that we definitely needed was a regular technology column. We will still have our special Game Developers Conference coverage each year, and we will still have separate "Behind The Screens" articles at various times, but Paul Schuytema's "Hex, Bugs and Rock 'n Roll" column is designed to take you behind the screens of game technology on a monthly basis. Let us know what you think of it.*

### WHEN YOU WISH UPON *STAR FLEET BATTLES*

"They Just Don't Get It" (*CGW* 118, Editorial) hit the nail on the head! Just what I've been saying for several years.

What I want to know is why we haven't seen a computer software version of STAR FLEET BATTLES by **Amarillo Design Group** or AXIS & ALLIES by **Milton Bradley**. Both of these board games have heavy market appeal due to established player groups. The Rumor Guy mentioned an on-line version of SFB several months ago, but I would also like to see a straight game version. Also, your "Artifacts of the Ancients" (*CGW* 118, pg. 50) did not mention WARP WAR, an excellent SFB rip-off for IBM, circa 1980.

*Brian Carlton*
*Stafford, VA*

***New World Computing** once owned **Task Force Games**, the publisher of* STAR FLEET BATTLES. *They explored the possibilities of doing a computer game based on the board game, but TFG's tenuous agreement with **Paramount**'s legal department (over whether the game was in violation of the copyright on Paramount's Star Trek properties or not) would have been put in jeopardy by the attempt to publish a computer game version. The on-line version is likely in doubt over the same issue, as well as the fact that the executive who signed the original development deal on behalf of the network is no longer with the company.*

*As for* AXIS & ALLIES, *Milton Bradley accepted offers on their board game properties about three years ago. **Electronic Arts** opted for* SPACE HULK, *instead of* AXIS & ALLIES, *and their U.K. branch did a sterling job of recreating that universe.*

*The "Artifacts of the Ancients" sidebar was not intended as a complete historical listing. We merely listed our favorites according to the amount of space available. Judging from the next two letters, though, you weren't the only one who was intrigued by the sidebar on out-of-print science fiction games.*

I would love to see some updates to the games in your sci-fi overview ("Artifacts of the Ancients"). Specifically, I'd like to see CRUSH, CRUMBLE & CHOMP with SVGA and Sound Blaster or SUPER M.U.L.E.

*David Romerstein*
*Clinton, MD*

*A new* M.U.L.E. *game was in the works at **Electronic Arts**, but Dani Bunten was less than thrilled with some of the changes in basic design that were being required of her. Frankly, we'd settle for the old* M.U.L.E. *on a Sega cart or in VGA for IBM.* CRUSH, CRUMBLE & CHOMP, *on the other hand, is exactly what three or four sets of attorneys would do to each other if that title was resurrected. We can well imagine a famous board game designer and a famous computer game designer suing over whether the computer game was based on a board game or not. Then, we can well imagine a Japanese media conglomerate suing the winner.*

You left out one of my all time favorite games in your strategic space games article. The game is SUNDOG on the Apple II. Build up a colony by collecting all the items. Gain money through trade or killing pirates. Great fun!

*Mike Alexander*
*San Jose, CA*

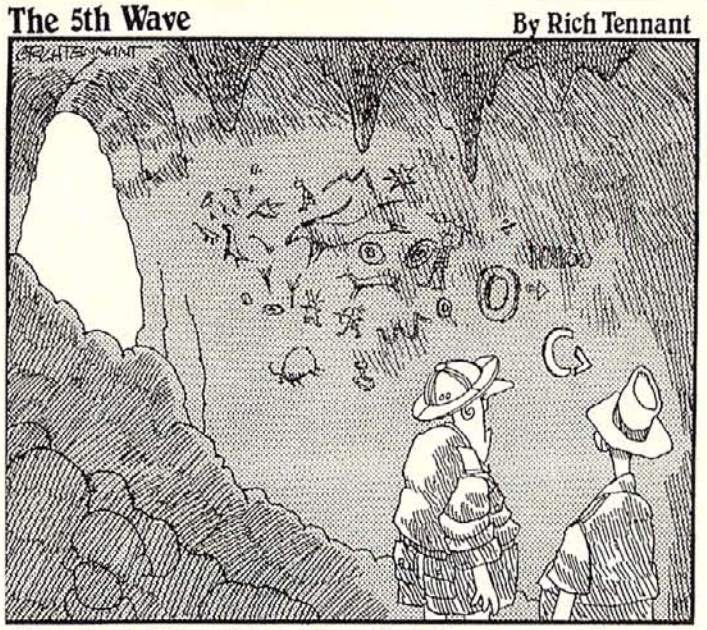
### ONCE UPON A LAYOUT DREARY

Thank you for the critique of JUMP RAVEN in the April issue of *CGW*. Your reviewer took his time and played the game. The result — thought-provoking comments that serve as one of the reasons that **CyberFlix** keeps looking to *CGW* for stimulating game reviews.

However, there is one significant error in your review. The headline lists **Paramount** as JUMP RAVEN's publisher. This is incorrect. **Paramount** is the distributor. **CyberFlix** is the exclusive publisher and creator of both JUMP RAVEN and LUNICUS. The titles are wholly owned by us.

*Bill Appleton, President*
*CyberFlix*

**The 5th Wave By Rich Tennant**




"It was at this point in time that there appeared to be some sort of mass insanity."

# Here Are Four Good Reasons to Try Epic Pinball Today.

**Space Journey**



**Cyborgirl**



**Pangaea**



**Toy Factory**



Award-winning Epic Pinball offers realistically fluid ball movement, a high-quality sound track and ultra-smooth scrolling graphics. It's all here: ramps, sink holes, kick-backs, drop targets, multiple-ball play, jackpots, skill shots and scoring rules just like real pinball tables.

The four tables shown above make up Pinball Pack #3. Individual packs are $29, two packs are $49, all three packs are $59 or get the CD-ROM with all three packs plus an exclusive new table for only $64. Epic Pinball combine great pinball action with great gaming value.

**"Epic Pinball rings up a high score"** - Computer Gaming World

**"Up there with the best of the commercial releases", rated 91%** - PC Format

**"Perfected to the peak of playability", rated 5/5** - PC Power

# Here's How To Try It.

**SHAREWARE TRY IT TODAY!**

On CompuServe, GO EPIC. You can download an Epic shareware game virtually free every month and visit the Epic forum for hints, tips, technical support and to download our other shareware games. From GO EPIC you can also buy and download Epic games, like Epic Pinball, instantly. For a free CompuServe sign-up kit, call (800) 524-3388 and ask for representative #536.

EXEC-PC, the world's largest BBS, let's you download Epic shareware games on your very first call. Call (414) 789-4360 (V.32bis). Or, check your local BBS.

No modem? Call our toll-free line with your VISA or MasterCard ready and for $5 we'll send you the shareware version. You may also be able find the shareware version at your favorite software retailer.



**Super Android, the upgraded shareware version, now with stereo surround sound!**

EPIC MEGAGAMES

## TO ORDER CALL EPIC MEGAGAMES 1-800-972-7434

VISA, MasterCard and Checks accepted. MD residents please add 5% sales tax. Please add $4 shipping and handling to above prices. Each order includes a bonus shareware game. In the U.K. or Europe please call Epic MegaGames UK at 0767 260903.

Epic MegaGames · 20 Courthouse Square, Rockville MD, 20850 · Phone (301) 983-9771 · Fax (301) 299-3841

*Sorry for the confusion. At one time, we only had to worry about the distributor/publisher distinction with the affiliates for **Electronic Arts**, **Mediagenic** (now, **Activision** once more), **Broderbund** and **MicroProse**. Now, we are getting used to the idea that **Accolade**, **Virgin**, **Interplay**, **Paramount** and **TimeWarner** all have affiliated publishers, as well. Hopefully, we'll make that mistake "Nevermore!" Speaking of distribution agreements, that's part of the problem faced by the writer of the next letter.*

### PUBLISHER 3000 AD

What company will publish BATTLECRUISER? Please include this information in your articles.

*Eric*
*Roseville, CA*

*Whereas the article did mention the publisher, **Mission Studios**, it didn't mention the distributor, **Interplay**. That information is routinely supplied with the reviews, but the cover story from May was a Sneak Preview and does not usually have that information.*

### CUT RATE

Why do you ask for ratings on games [for the Top 100 Poll], in this instance OPERATION CRUSADER by **Avalon Hill**, when the game will not be on store shelves until June? I own an IBM machine, but I have not seen this game out in any format, yet. What gives?

*Ken*
*Alameda, CA*

*Would you believe that we simply make up a lot of the game names on the list to see if you're paying attention? How about if we told you it was a test to see if you were rating the games honestly? Okay, maybe the truth. The game is currently out on the Macintosh format. We asked for a rating because, at press time, it was supposed to be shipping and we expected it to hit the shelves at the same time as the magazines.*

### O SOLO MIO

Just a note from the Hans Solo fans to **LucasArts**. Please, please release a Millennium Falcon upgrade for X-WING FIGHTER. PRIVATEER has really wet our whistle.

*Scott*
*Las Vegas, NV*

*It might be tough to convince the folks at **LucasArts**. Thus far, games in the series have stayed away from letting gamers be actual characters from the films. So, since there is really only one Millennium Falcon, it is highly unlikely that they will do so.*

### MAGNUM OMISSION

*Our official continuity squad missed the fact that our* OXYD MAGNUM! *review was accompanied with screen shots from the original* OXYD. OXYD MAGNUM! *is a completely different game than the shareware version previously released. Here's an image from this new release.*




**MAZED AND CONFUSED** **OXYD MAGNUM!'s new lasers and bombs might make you lose your marble.**


# Shop Naked

It's the cool way to shop for games.



No shoes. No shirt. Great service. That's what you get when you shop for games at home with the new CD: *CyberMall—For Gamers Only.**

Don't waste time guessing about games based on the hype in a catalog or the blurb on a box. Play the whole game—the full version—before making your choice.

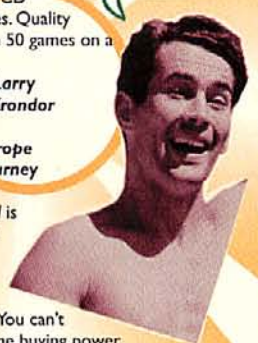
*CyberMall* isn't a demo. It's not shareware. It's real, complete games. And you can try them out before you buy—in your own time, your own space.

Then you can order games with just a phone call. Give a credit card number, get a key that unlocks the game. It's ready for instant installation on your hard drive.

No waiting around for your mail order. No pushing through a crowd at a store.

*Requires Windows 3.0 or better

This CD is loaded. It rocks.



*The CyberMall* CD delivers hot games. Quality games. More than 50 games on a disk, including:

***Leisure Suit Larry***
***Betrayal at Krondor***
***Kings Quest***
***Aces over Europe***
***Solitaire's Journey***
***And more.***

Plus, *CyberMall* is the only disk you can get that's packed with *nothing* but fresh games like these. You can't get this much game buying power anywhere else. We're the only place you can experience *all* of a game before you decide to buy it.

Then, you can buy it at a super-competitive price.

It's totally instantaneous.



A phone call puts *CyberMall* in the mail to you. Another call gets you an installation code for any game you decide to buy. Get instant gratification.

Get it cheap, too. ***CyberMall—For Gamers Only*** **is just $3[95] S&H.**

**Call toll-free for the full-tilt gamer's exclusive**
**1-800-914-GAME (4263)**
**7am–9pm MST, or write:**
**InfoNow**
**Dept. CGW7**
**4001 Discovery Drive**
**Suite 230**
**Boulder, CO 80303**

Reader Service #167

# FEAR.
# EXHILARATION.
# COURAGE.
# MADNESS.
# BRAVERY.
# EVIL.

All in one little box.

## LORDS OF MIDNIGHT

DOMARK

COMING IN JULY '94.

For order information call **800-695-GAME** today.

*Circle Reader Service #132*

# READ.ME

THE LATEST NEWS FROM THE GAMING WORLD

## Illuminati: 300,000, Secret Service: 0

### Secret Service Settles Steve Jackson Games Case

After four years of legal maneuvering and more than one year after a federal judge ruled that the Secret Service unlawfully raided Steve Jackson Games in March of 1990, the United States Secret Service paid more than $300,000 to Steve Jackson Games. The raid took place on March 1, 1990, when Secret Service agents seized several computers and the galleys for a role-playing game supplement (GURPS Cyberpunk) that was ready for printing. The Secret Service carried out the raid under a sealed warrant, alleging a conspiracy of hackers on the SJG BBS.

On May 5, 1994, SJG announced that the Secret Service had finally paid the judgment. The exact monetary settlement was $52,431.50 for lost profits due to the unlawful seizure of product and equipment and $252,405.54 for legal fees. The latter funds were originally provided by the Electronic Freedom Foundation (EFF), which will be reimbursed by the settlement.

The judgment is an important watershed in protecting the privacy of computer gamers and other users on local bulletin board systems, as well as those who use the Internet.

## Fox Hunts For Interactive Profit

### Ex-Tengen Exec Ted Hoff Heads Fox Interactive Division

Those watching the inevitable invasion of Hollywood into the gaming industry may note that a new beachhead has been hit. Ted Hoff, formerly of Tengen (recently integrated into the Time-Warner Interactive Group), has been chosen to head up Fox's new interactive division. Fox announced it would release five game titles in the upcoming year on available platforms ranging from 16-bit cartridge machines to CD-ROM players.

From a marketing standpoint, the move to release games based on Fox films and videos makes sense, given their high profile. Fox executives remarked that the release of games on certain films was bound to happen, and that they saw no reason to continue licensing games. The first of these many releases, THE TICK, appears to be a standard twitch-and-flex cartridge game. However, PAGEMASTER, a fantasy game based on the upcoming Macauley Culkin/Christopher Lloyd film, and SCAVENGERS, a science-fiction epic, both appear to be of more interest to *CGW* readers.

Hoff and other Fox executives seemed sincere about avoiding the "tonnage mentali-

## BETA BITS

### Front Page Sports: Baseball

The design team that revolutionized sports sims with FPS: FOOTBALL PRO is taking a crack at baseball. The design team is taking a similar approach to that of FPS FOOTBALL, providing both a sound and detailed statistical simulation along with a great action game. Like FPS FOOTBALL, you will be able to simulate full seasons of major league play over many years, so that players will age, come into their prime, slowly decline, and then retire. Drafts, minor leagues, trades, and play-off roster expansions will all be a part of the general manager's life. The basic model for the game calculates the flight of the ball off that bat using a sophisticated physical model, so the path of a given ball will be unpredicable, unlike most baseball sims. Projected Release: July.





### Inferno

From the other side of the Atlantic comes this Action/Adventure game, looking to be the heir to STAR CONTROL 2. A staggering 700 potential missions take place in a solar system beautifully-rendered through a combination of texture-mapping, 3D computer modeling and digitized photographs. The game may be played simply as an arcade exercise, using the three different flight models available. For those wishing more direction, the "director's cut" scenario creates a campaign story generated by your actions, as you attempt to defeat the evil aliens in classic sci-fi fashion. Instead of being locked into a linear flow, a la WING COMMANDER, INFERNO's story branches have some 6000 possible outcomes, making this game far more replayable than most of its genre. Sporting a dark graphic novel-like look, the game has one of the best and most original soundtracks we've heard in ages. Projected release: July-August.

ty" of putting out large numbers of indistinguishable products. Still, when *CGW* asked how Fox intended to keep their stated artistic integrity intact — given Nintendo's tendency to dictate content — Hoff avoided the issue by discussing game ratings and censorship in a broad sense. Further, Fox sees games as largely for kids, and cited their adult line as beginning with a Marilyn Monroe infotainment product.

To industry veterans, there may be a sense of *deja vu* in the Fox announcement. Prior to the cartridge crash in the mid-'80s, Fox, media giant **CBS** and super-conglomerate **Gulf + Western** (then parent to **Paramount Pictures** and book publisher **Simon & Schuster**) had software companies to publish their specific properties. **20th Century Fox Games** even published a M.A.S.H. cartridge and an ATTACK OF THE KILLER TOMATOES game. By the late '80s, however, out-licensing (where studios let others use their creative properties for a fee) had become the most efficient means of dealing with creative properties for software products. Now, with the information superhighway on the horizon, studios want to take direct control of their properties once again.

## Mindcraft & Mallard R.I.P.

**Mallard**, the publisher of FLIGHT SIMULATOR add-on products, and **Mindcraft**, the award-winning publisher of THE MAGIC CANDLE, have closed their doors. **Mallard**'s assets have been assumed by the **Bruce Artwick Organization, Ltd.**, the original developers of the FLIGHT SIMULATOR products, and BAO will be distributing such products as FLIGHT SIMULATOR FLIGHT SHOP, TOWER CONTROLLER, AIR RESCUE 911 FOR FLIGHT SIMULATOR 5 and REAL WEATHER PILOT UPDATE under the **BAO Simulation Products** label.

**Mindcraft**, following on hard times and disappointing sales, was forced to file bankruptcy. However, its founder, Ali Atabek, is now a producer at **Interplay Productions** and is expected to finish the MECHAMANDER strategy game for that company. MECHAMANDER may well be named MECH COMMANDER before the project ships, but Ali's original vision is still expected to reach the market in 1994.

## PLAYING LATELY?

Here are the titles that gamers are spending the most "quality time" with. Let us know which game you've been playing lately, by writing the name of your current addiction in the "Playing Lately?" section of the *CGW* Top 100 poll card.

### Readers' TOP 10

Results for *CGW* #118, May 1994

1. **Doom** (id Software)
2. **Master of Orion** (MicroProse)
3. **SimCity 2000** (Maxis)
4. **Elder Scrolls: Arena** (Bethesda)
5. **Pagan - Ultima 8** (Origin Systems)
6. **Warlords II** (Strategic Studies Group)
7. **X-Wing** (LucasArts)
8. **Civilization** (MicroProse)
9. **Fleet Defender** (MicroProse)
10. **Gabriel Knight** (Sierra On-line)

## Notable Quotes

Wit, wisdom and caustic quips from gaming's harshest critics — you!

"ULTIMA VIII is great, but it features too many arcade-like aspects, such as an arcadish combat system and the stupid jumping puzzles. What happened to having a party?" *Calin Culianu, NY, NY*

I'd like to see a role-playing game where you could be the Evil One who pillages the nation, kills heroes, and casts all those cool Dark Mage spells, for a change. *—Paul Lombard-Johnson, Carol Stream, IL*

"ULTIMA VI was beautiful, ULTIMA VII was indifferent, ULTIMA VIII is a disappointment. Where is Origin going?" *Gilbert Brahms, Richmond, CA*

"DOOM is...what I mean is...words fail me. There are insufficient words in the English language to adequately describe my opinion of DOOM." *J. Hamilton, State College, PA*

"Where is SimDog? Chasing squirrels, avoiding baths, foraging for food — think of it. The different breeds, smells, the perspective, CATS!" *Karl Kindt, Webster Groves, OH*

"FLEET DEFENDER is one of the most fun flight sims I've ever flown! What a great flight model. I love flying it around so much I forget about combat!" *Richard Ordway, Boulder, CO*

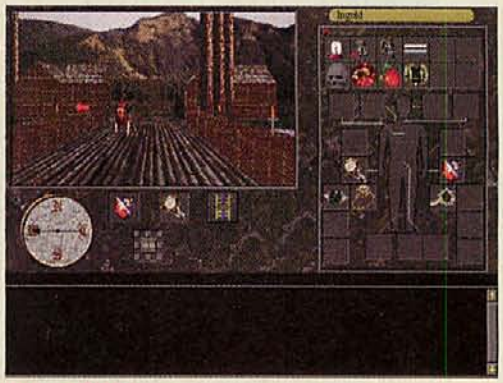
# Rupert Murdoch Buys Again

## Kesmai, Air Warrior's Parent Becomes Part of News Corp

Kesmai Corporation, developer of Compuserve's Island of Kesmai, GEnie's Air Warrior and Multi-Player BattleTech, has become part of the Rupert Murdoch empire. Murdoch's News Corporation recently staked out its position on the coming information superhighway by purchasing Delphi Internet Services. Ben Feder, Director of Interactive Media for Delphi, expressed their mission statement in sequential concerns. "Number one, it is Delphi's intention to become the number one consumer service. Number two, we believe that interactive games will be the driving force to get us there. Number three, we believe that, in Kesmai, we have acquired the number one multi-player online game developer in the world and that they will serve as a cornerstone in building the service."

With the purchase of Kesmai, most of the online game developer's games will become accessible via the Delphi service. MULTI-PLAYER BATTLETECH will continue to be a GEnie exclusive in the United States, but the other games (including HARPOON ON-LINE which is nearing a beta test launch on GEnie) will soon be found on other networks (including Delphi and **CRIS—Concentric Research Information Services**). John Taylor, President of Kesmai, says the company's ultimate goal is to be able to use their ARIES infrastructure (their own base network in Virginia) as the host environment for providing the same universe across products on all networks. So adventurers in the Island of Kesmai using CRIS might run into adventurers using Delphi and Compuserve.

Taylor also said that Kesmai will be assisting third-party developers in reaching audiences on multiple services. Kesmai will provide this service for Richard Bartles' MUD II: THE QUEST FOR IMMORTALITY and for newcomer **VOR Technologies** (a group of programmers with **Bell Labs** experience), a company which will soon offer THE DRAGON'S TALE, a first-person perspective, DOOM-like dungeon crawl, to begin internal testing.



**DRAGON'S TALE:** VOR Technologies' On-line RPG to be distributed by Kesmai

## BETA BITS

### BIOFORGE

Origin takes its turn at interactive movie production with BIOFORGE, a science fiction action story in which you play a genetically crossed man/machine. Unlike other so-called Interactive Films, where the interaction involves setting non-interactive video segments in motion, Origin is creating beautiful 3D sets in which you will control a "synthetic actor." The concept has been tried before in I-Motion's Alone in the Dark games, but Origin is replacing I-Motion's blocky polygonal creatures with texture-mapped actors, animated with a new and highly effective animation technique. Cinematic camera angles, cut scenes, and plenty of player-controlled combat will keep the plot of this science fiction adventure rolling. Projected Release: August.






### LORDS OF THE REALM

Fans of the books *Life in a Medieval Castle* and *Life in a Medieval City* should enjoy the medieval management options in **Impressions'** LORDS OF THE REALM. The high concept is essentially that of a multi-player CASTLES 2, but the detail level in the economic model is considerably higher (assigning specific numbers of laborers to specific tasks as opposed to action points, selecting individual fields and crops, determining when to let fields lie fallow, and more). The final version is supposed to allow you to send custom insults to other opponents, enable you to build alliances with other players, and provide you with built-in tools for performance evaluation. Projected Release: September.

# MediaVision On Corporate Rollercoaster

## Quality Products Overshadowed By FBI And SEC Probes

The FBI confirmed on May 9, 1994 that it was engaged in a joint investigation with the Securities and Exchange Commission over alleged securities violations. According to the San Francisco Chronicle, one charge would likely be that MediaVision juggled their inventory to show that millions of dollars worth of product had shipped when, in reality, the stereo speakers from Hong Kong which were needed in order to assemble those fabricated shipments would not even arrive in the United States until a week later. Such inventory tampering/fabricating was reputed to have been a mode of operation for MediaVision CEO Paul Jain at another high-tech company at which he served, Video 7.

On May 17, MediaVision's top four executives resigned. They included: CEO Paul Jain, COO Russell C. Faust, CFO Steven J. Allen, and Michael Humphreys, V-P of Worldwide Sales. Jain claimed that the allegations reported in the *San Francisco Chronicle* were unfair and untrue, blaming his resignation on the negative publicity. In the wake of the resignations, a creditors committee was established to develop a plan in which MediaVision could avoid filing for bankruptcy.

Meanwhile, MediaVision's publishing group has wrapped up camera work for THE DAEDALUS ENCOUNTER, their latest interactive movie on CD-ROM. The product will feature Tia Carrere who played the love interest in both *Wayne's World* movies. It is also more than three times as large as CRITICAL PATH, the first interactive movie which MediaVision published from developer **MechaDeus**, and more puzzle-intensive than the earlier game. Gamers should hope that MediaVision's corporate troubles will not endanger such future development.

### PIPELINE

| NAME OF GAME, COMPANY | RELEASE DATE |
|---|---|
| **11th Hour** Virgin | 7/94 |
| **Aces of the Deep** Dynamix | 8/94 |
| **Across the Rhine** MicroProse | 8/94 |
| **Armored Fist** NovaLogic | 8/94 |
| **All-Pro Football** Accolade | 10/94 |
| **Battledrome** Dynamix | 10/94 |
| **Bioforge** Origin | 8/94 |
| **Blitzkrieg** (working title) New World | 9/94 |
| **Brett Hull Hockey** Accolade | 10/94 |
| **Celtic Tales** Koei | 10/94 |
| **Colonization** MicroProse | 10/94 |
| **Command & Conquer** Virgin | 11/94 |
| **FPS: Baseball** Dynamix | 7/94 |
| **Heroes of M&M** New World | 8/94 |
| **Inferno** Ocean | 8/94 |
| **Jagged Alliance** Sir-Tech | 9/94 |
| **Jorune: Alien Logic** SSI | 7/94 |
| **LodeRunner: A Legend** Dynamix | 8/94 |
| **Lords of the Realm** Impressions | 8/94 |
| **Masters of Magic** MicroProse | 10/94 |
| **MetalTech: Earth Siege** Dynamix | 8/94 |
| **NCAA Basketball** Bethesda | 9-10/94 |
| **Noctropolis** EA | 9/94 |
| **Phantasmagoria** Sierra | 10/94 |
| **Wings of Glory** Origin | 7/94 |
| **Zephyr** New World | 8/94 |

### AFFAIRS IN THE CYBURBS

## New CGW Forum On ZiffNet Brings You Wild "Wrld" of Gaming

In the words of one of our first Forum users, *Computer Gaming World* now has its own lane on the information highway. However this section of the superhighway only allows names with 26 or fewer characters. So come join us on the "Computer Gaming Wrld Forum" running on ZiffNet on CompuServe. (We wanted to call it Computer Gaming World 4Rum but they wouldn't let us). While there are still a few bridges that need widening, the fast lane is ready for access to download files and exchange information with *CGW* editors and other gamers.

Use the command GO GAMEWORLD to see all the directories about entertainment software, hardware and services. One of the first areas you may want to visit is "Hey, Editor!", where you can query our staff, including On-Line Editor Alan Emrich, who prowls there each work day. Other sections include News, Views, Issues; Adventure Role-Playing; Arcade Action; Simulation Section; Sporting Life; War & Strategy; and The Hardware Zone (a favorite of Technical Editor Mike Weksler).

In addition, you can download shareware games and reviews, game demos and game patch files. Find that worthy adversary you've been looking for in the Opponents Wanted section, where you can search for opponents by zip code.

To join the *CGW* Forum, if you are a CompuServe or ZiffNet member, type Go Gameworld at any CIS prompt. ZiffNet members pay a monthly membership fee of $2.95 for access to all ZiffNet services.

If you're a new subscriber, set your communications software to 7 data bits, even parity, 1 stop bit and full duplex, and call CompuServe at (800) 848-8990 (US) or (800) 635-6225 (Canada) for a local access number.

Once you get online, you can GO ZIFFSOFT and download WinCIM or DOSCIM to make navigating around the system easier. Then type GAMEWORLD in the dialogue box to head for the games highway. Download the file CGWNEW.HLP, a WinHelp file, in Library 1, General Files, to get a quick overview of the forum and background on the sysops and *Computer Gaming World* editors.

In addition to joining ZiffNet on CompuServe, *CGW* is also Prodigy's on-line games expert. You can find us in the Game Center, where we post three new articles a week, two hint articles per month, and administer the Top 10 Game Poll. We plan to expand into ZiffNet on Prodigy, and we are working to develop an on-line companion to the magazine with Interchange, a new online service from Ziff-Davis Interactive.

# To Hell

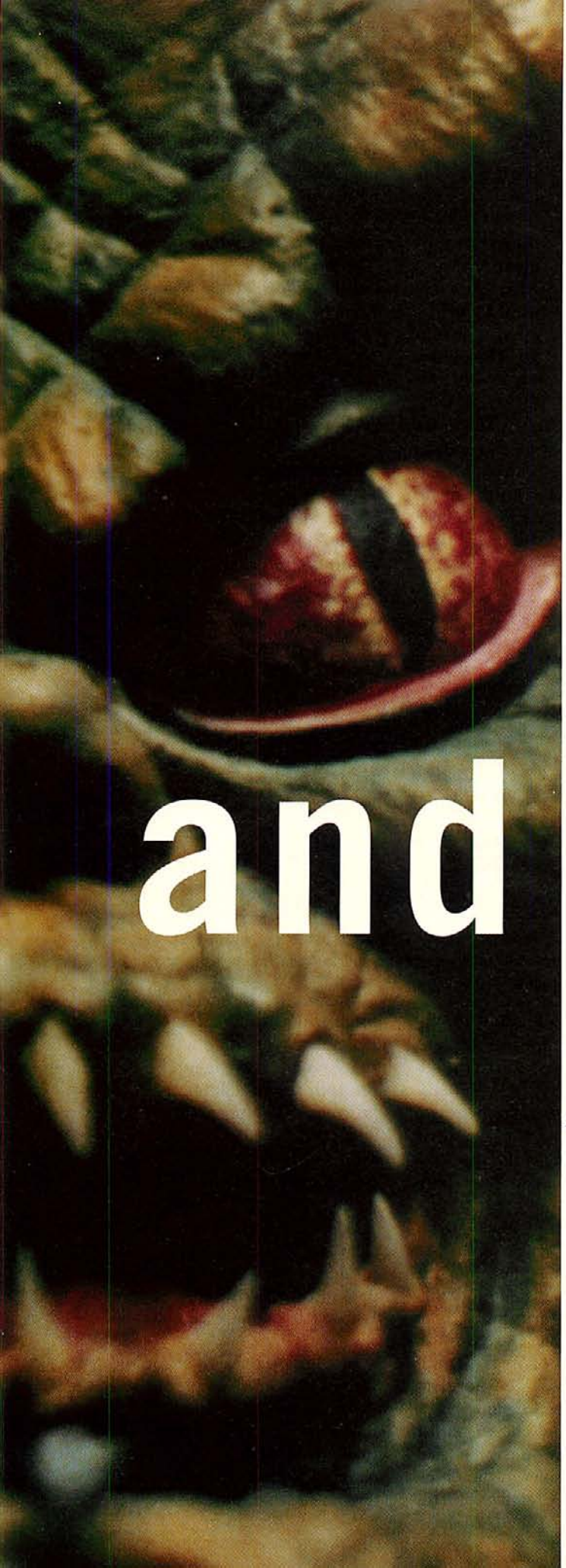
Mesquite lies one gallon of rental car gas outside of downtown Dallas. By the side of the freeway is a large black box of a building that looks strikingly out of place in this Southern suburbia. Here in a modest office on an upper floor of this obsidian block, id Software created the intensely violent action games that cut deep marks in computer gaming: WOLFENSTEIN 3D and DOOM. Stories abound from the early days of computer gaming when people sat in their living rooms pouring their dreams into 8-bit computers, selling them in zip-lock bags and watching in amazement as the checks piled in, sometimes turning these pioneers into millionaires. When I stepped into the modest offices of id Software and saw how democratically and, often, anarchistically these 10 people ran their operation, and when I heard just how successful their games and their shareware marketing approach have been, I couldn't help but think that I had stepped back into the wilder and woollier days of the computer gaming Gold Rush.

I was met by id CEO Jay Wilbur, who gave me a tour of the grounds: a spartan reception area with a shelf packed with awards, offices for the programmers, tech support, and the two artists, a storage room and kitchen occupied by a foosball table, an entire pallet of caffeinated drinks, a large box of chips, and a fridge filled with ice cream treats. Roughly at the center of the space is a "living room" area with couches and a pool table.

As we finished the rounds, the small talk was cut short by a scream, "Sonofabitch!", and the sound of something like a wrecking ball attacking a wall. Jay smiled. It was only programmer John Romero and betatester Shawn Green in the first of many daily network DOOM sessions. The level of competition is vicious, I would soon find out, and the textual taunts that fly across the network during play are like to fry a preacher's profanity circuits. Nearly four months after the release of DOOM, the id guys are still obsessed with their creation. I've heard the statement, "We just set out to create games that we want to play," but I've never been so convinced that this was true.

Assuming Jay to be The Boss, I asked to meet with him one-on-one for the background on id. He flatly refused. "Everything is run democratically here. We all have a say." So he gathered the majority of the id group, and we pulled up chairs around the pool table-turned Ping-Pong table, currently the site of a Battle Masters fantasy-miniatures game. Setting my tape recorder on a well-defended hex of the Milton Bradley game, I shot the breeze with: 26 year-old John Romero, tools programmer, level designer, and the best DOOM player in the world; Sandy Petersen, a long-time paper game (CALL OF CHTHULU) and computer game designer (HYPERSPEED) who now does the majority of the level design; Kevin Cloud, a soft spoken southern gentleman of 26 years and one of two id artists; and finally, Jay Wilbur, the bleach-blond 33-year old who handles operations and manages the finances (a BIG job these days). John Carmack, the 23 year-old programming





# and Back Again

**CHRIS LOMBARDI ventured deep into the heart of Texas to visit *id Software*, the creators of the infernal DOOM. He came back with a story, but had to trade a piece of his soul for it.**

savant and the man behind the core id technology, was making a special effort to come in "early" for the meeting, but at 2:00 p.m. he was nowhere to be found. A half hour later, he would walk in bleary-eyed, explaining that he'd been in "vampire mode" for the last week, programming WOLFENSTEIN 3D for the Atari Jaguar.

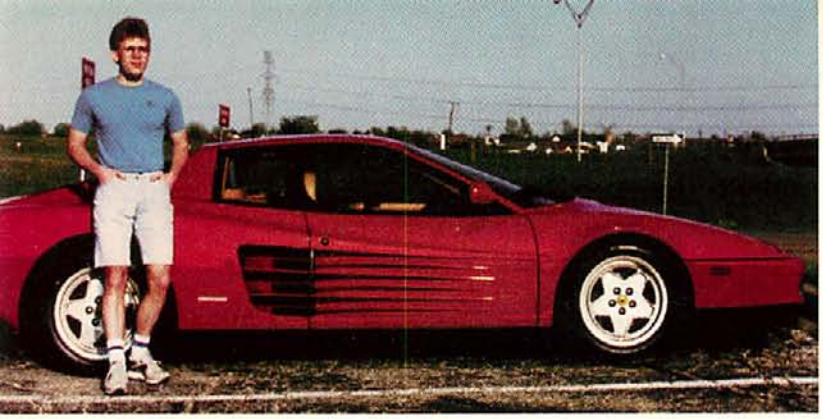
### ID THE BEGINNING...

Id Software is basically a collection of pilgrims from a company called Softdisk out of Shreveport, Louisiana. Softdisk put out a monthly disk of arcade games, and in 1989, Romero, Wilbur, Cloud, Adrian Carmack, and Tom Hall were a part of the game development group there. John Carmack, an Apple IIGS programmer, came to Softdisk in 1990, lured by the opportunity to learn IBM programming under Romero's tutelage.

In 1990, Romero began to get fan mail for one of the arcade games his group had programmed. He would tack the goofy, though worshipful, fan letters proudly to his wall, ignoring the many requests to call his fans back. So proud was he, he failed to recognize that, though the names on the letters were different, the address was the same. Then, he made a connection. While reading about a piece of shareware in a computer magazine, Romero saw a contact address that seemed strangely familiar. Looking up at the fan letters, he noticed the address was the same.

Scott Miller, head of Apogee software, had written all of the letters, each with a different variation on his name. He was impressed with Romero's work and wanted Romero to work for him. But, knowing that all of the mail at Softdisk was screened, he couldn't contact Romero directly, so he wrote the letters.

After Romero got over the disappointment (he was proud of his



**TESTOSTEROSSA** "My mom stopped hassling me to get a real job when I bought my first car," Carmack says. His *other* car is a Testarossa, too.

fan club), he called Miller back, and ideas were thrown about. In December of 1990, a group of programmers at Softdisk proposed COMMANDER KEEN to Miller. They began moonlighting, programming Keen out of the bedroom of "a really cool lake house. We could go out in the middle of the day and go kneeboarding for a while, and then come back in and start programming," recalled Romero.

COMMANDER KEEN sold very well for a shareware game, and when they got their first check from Apogee, Romero, John Carmack and Adrian Carmack (no relation) decided to leave and form their own company. The original name was IFD Software, or Ideas From the Deep, but it was later shortened to ID, which originally stood for In Demand. Not pleased with In Demand ("it was lame"), someone suggested the connection with the Freudian term id. They liked the connotations and adopted it.

A few months later, id hired Tom Hall from Softdisk and moved to Madison, Wisconsin. After a hard winter programming the remainder of the COMMANDER KEEN series, the group moved to their current location. They hired Jay Wilbur and Kevin Cloud from Softdisk, and began working on WOLFENSTEIN 3D.

WOLFENSTEIN 3D followed a Carmack project called CATACOMBS 3D. The group wanted to fold knowledge gleaned from CATACOMBS into a fast action 3D game called "It's Green And Pissed," where the player would hunt mutants in a bio-research lab. They reminisced about an old Apple II game called CASTLE WOLFENSTEIN and decided that the setting of this classic (a captured U.S. soldier trying to escape from a Nazi fortress) would be a great game in 3D. They hunted down the original designer, Silas Warner, only to find that he had sold the rights. The rights trail led through three or four long-dead companies, finally ending with a guy selling the original game out of his basement. The copyright on the game had long since lapsed, so they applied for the copyright themselves.



When WOLFENSTEIN 3D was released, all hell broke loose. The tremendous 3D environment blew the minds of people who had come to expect a certain level of production value in shareware games. The cry from the press "I can't believe it's shareware!", echoed the sentiments of players everywhere. The game logged 150,000 registrations as shareware, and sold 150,000 copies in retail stores as Spear of Destiny. Id estimates worldwide shareware distribution to top one million.

As the fame of WOLFENSTEIN began to build, the group started a few new projects and began working on a new graphics engine that they would license to Raven Software (for Origin's SHADOWCASTER), and they began a conversion of WOLF 3D for the Nintendo. Their experience with Nintendo was a bad one, being forced by the company to change the game to eliminate the Nazis and turn the German Shepherds into rats. Once this disfigured version of WOLF 3D was finished, they vowed never to work for Nintendo again.

At this time, the ideas for DOOM began to percolate, but there were troubles in the development team. Creative director Tom Hall had developed a design for DOOM that the rest of the team didn't like. Basically, Hall wanted to inject a story into DOOM and make the environment more interactive, but the rest of the team didn't want a story to slow down the relentless, visceral action. So Hall and id parted ways, making way for designer Sandy Petersen. The group hired Petersen in July of 1993, and he immediately began working with Romero's design tools, developing many of the levels in the final version of DOOM. A few months later, id added Dave Taylor, a UNIX hack for IBM, to program the intermission screens, automap, and sound code.

## DOOM'S DAY

As Doom progressed, word of its wonders began to spread through the press and the on-line networks. Anticipation in the gaming community reached a fevered pitch when the company announced a December release. Id advertised that the shareware version would be released on the 10th at midnight on the University of Wisconsin's computer system. The system allowed 125 users on its FTP site, and all 125 slots were full that night. Wilbur couldn't get on the system to upload the game.




**HEAVYWEIGHT HELLION** Weighing in at 500 lbs. and with a reach of two erratically firing plasma guns, this hefty chum is going to be a tough opponent in the ring.

When Wilbur requested the sysop to clear the system, the sysop complied and raised the user limit by 50. Despite this, users started pouring in again, and Wilbur barely made it into one of the last slots.

In addition to the users on the Wisconsin system, hundreds of others "watched" Jay upload DOOM through the IRC channel. The second Jay completed the upload, thousands of people on the IRC channel slammed the Wisconsin system and crashed it...twice.

## SHARE IT WITH THE WORLD

Despite the success of their games, id continues to surprise the market by sticking with shareware distribution (although the sequel to DOOM will be a commercial release). But there are advantages to marketing via shareware that the group supports, not the least of which is a healthy profit margin. id also likes the fact that people can try out their games before they buy them, and they like being able to distribute their games immediately after they're finished. They especially enjoy not having to deal with marketing and retail pressures. "I don't think you can be any closer to the consumer than in shareware," said Cloud. "Yes, but the main reason for being in shareware is greed," replied Petersen, half joking.

Though id is rolling in the fruit of their labors, it doesn't seem to have affected their day-to-day lives much. Several of them are buying or building houses, except for J. Carmack who still lives out of a one bedroom apartment; he sees no need for a big place because he spends most of his waking hours at id. Instead of a home, Carmack has bought not one, but two Ferrari Testarossas, the second of which is currently undergoing an 800hp twin turbo transformation. "I want dangerous acceleration," he said with a nervous laugh. Romero has since turned a green eye on Carmack's machines and has bought his own yellow Testarossa.



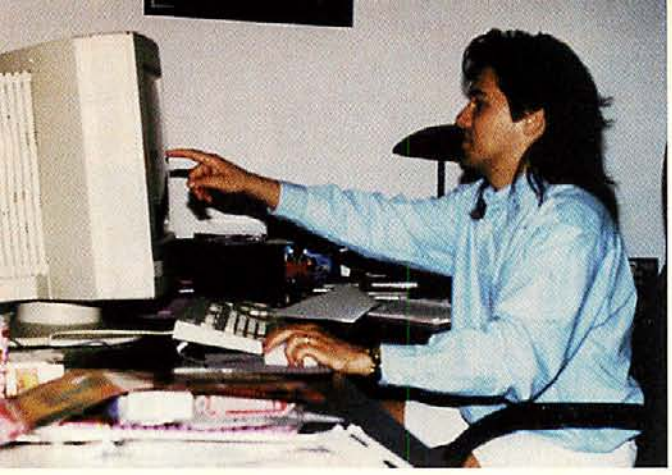

**SERGEANT SLAUGHTER** A new sergeant is there to greet you with open arms — and make you dance the chaingun boogie.

Aside from enabling Carmack to buy new toys, the money seems unimportant to him. What is important is programming — creating better and better games by creating better, tighter, faster code. He talks about WOLFENSTEIN as if he's embarrassed. "It was just a simple piece of work," he says dismissively, "DOOM was just so much better." Yet, DOOM is already starting to lose his favor. He's looking forward to the next project, where he can turn his obsession into the next huge leap in immersive gaming.

## SHAKIN' AND QUAKIN'

What is the next huge leap? They wouldn't say much, still in the idea phase and reluctant to build expectations too early, but they did tell me this: the name is QUAKE, the game engine will be completely brand new, and the 3D world will be so complete that creatures and characters will have depth, rather than being flat sprites. The current setting (notice I didn't say the evil s-word, "story") is a fantasy world where the player becomes a Thor-like being wielding a giant hammer, which he can throw at or bludgeon anything that moves. The world will have some real physics, so that characters will tumble when they fall from heights, and be knocked flat on their backs. As Romero was describing the multiplayer QUAKE of his imagination, he was literally hopping out of his seat and pantomiming the violent drama between two warrior gods, punc-





**THIS'LL JUST KILL 'EM** John Romero — tools programmer, level designer, and DeathMatch deity — shows off a new DOOM II level in progress.

tuating the action with sound effects (which he is given to in most conversations). If they can calm Romero down long enough to get some work done, id hopes to start working on QUAKE in September and release the game for Christmas of '95.

### DOOM II DIE

In the meantime, id is working on the sequel to DOOM — DOOM II: HELL ON EARTH. If you haven't yet finished the first game, I'm going to have to spoil your fun. At the end of DOOM, your marine escapes the pit of Hell, along with a couple of our friendly demons. In DOOM II, your marine returns to an Earth city to find that it is overrun by nasties. Nastiness is essentially what the new game is about.

DOOM II uses the same engine as the original, but offers 27-30 new levels populated by six new evil creatures — and it's going to be tough! Carmack told me, "It's not going to be an easy thing. We want to please players who have played all of the shareware stuff. We're going to include episode one [shareware DOOM] so that if people find DOOM II too tough, they can go back and train on that." And train you must, inexperienced ones, because the first few levels of DOOM II saw my character in death throes more than I'd care to count.

The new cast of characters for DOOM II is an interesting and deadly lot. In the Junior Badguy division are a chaingun-wielding sergeant, the Hell Knight (a junior version of the Baron of Hell), and a new Cacodemon that shoots Lost Souls (the screaming heads) out of its mouth. In the heavyweight division are a skeleton that shoots guided fireballs that will track you, an extremely obese chum with plasma launchers for arms, and the ArchVile. The ArchVile is a truly hideous thing that attacks by conjuring hell fire from the ground. If the ArchVile gets a bead on you, he'll go through a conjuring hocus pocus with his hands. If you're in his line of sight when he's through conjuring, you'll be frozen in your tracks and take the equivalent of a BFG attack on your mortal flesh. Ugly stuff. And that's not all — he has the power to raise dead creatures.

As if the creatures weren't nasty enough, the level designs are downright devious. As Petersen said, "We learned a lot about designing levels in DOOM, and we'll put what we learned to use in DOOM II." Apparently, what they learned was how to put the player in more perilous predicaments. I played about 10 of the new levels, and each has a few very sticky moments. In a particularly hairy scenario, the player is locked inside a small arena with both a Cyberdemon and the Mastermind Spider — the endlevel creatures from the registered version of DOOM. You enter this arena with little in the way of weapons, and the creatures immediately turn their tremendous firepower on you. If you hesitate, you're giblets. The key is to run around the arena, frantically dodging rockets and machine gun spray, and try to get the two creatures to fight each other. Once they're going at it, you must creep up on the platform where they're battling and inch your way around them to get to a lever that opens up the exit door. The feeling you get is of a little mortal running between the legs of two battling titans.

Since the game takes place on Earth, there are a number of city scenarios. There are tall buildings with imps peeking out through the windows, machine gun sergeants tucked in doorways and on ledges, and demons on the rooftops. I stood in the central square of one cityscape and looked around. In seconds, there were at least 15 fireballs and a hailstorm of gun fire flying at me from every direction.

Along with the increase in monsters comes slightly higher system requirements for optimal play. Lots of active monsters and multiple projectiles can bog down a processor, so if the first DOOM ran a bit slowly on your machine, DOOM II may bog down to the point of irritation.

No decision has been made yet on the subject of new weapons. A few of them expressed their disappointment with the BFG and suggested that it might be changed, but there wasn't a majority opinion on the subject, which is what is required for action at id.

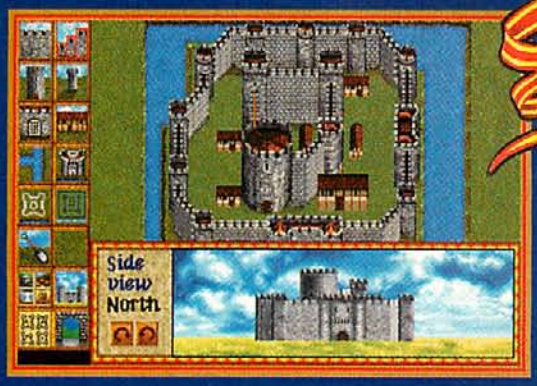
### THE EDITOR'S DEMISE

As my day with id drew into a windy Texas evening, I found myself in Episode 1 Level 5, an id favorite, in a network DeathMatch with Romero, Cloud, and *CGW* columnist Paul Schuytema. Over the next few hours, Romero taught us the delicate art of slaughter, racing around the map at supernatural speeds and using the mouse with such skill that he could, literally, run circles around us while keeping his weapon aimed at our spinning heads. We even teamed up against him at one point, but he continued to annihilate us, racking up 99 "frags" in no time. I managed to get Romero a dozen times, but most of these kills were suicidal, short-range rocket attacks that took us both out.

Humbled and hobbled by hand cramps, I said my goodbyes and headed out, glad to have discovered this small group of people posessed by a vision, blessed with the talent to make the vision a reality, and absolutely loving the process and the fruits of creation—a perfect picture of what this hobby is all about.




**TIPTOE THROUGH THE TITANS** The two end-level badasses from the registered version of DOOM make a guest appearance in the sequel.


















# Medieval England 1268 A.D.

In this time of castles and conquests the throne sits empty. Serfs are restless; rebellion is in the air. The Lords of the Realm invite you to join their ranks:

**Build your castles. Marshal your resources.**
**Test your troops in siege and battle.**

Behold! Your lands grow and your serfs prosper. Your armies swell and your castles dot the hilltops. On bended knee, your knights swear eternal fealty.

# Go for the Crown.

*Impressions*™

Impressions Software, Inc. 222 Third Street, Suite 0234, Cambridge MA 02142

*Circle Reader Service #77*

# The Designer's Dilemma

## THE EIGHTH ANNUAL COMPUTER GAME DEVELOPERS CONFERENCE

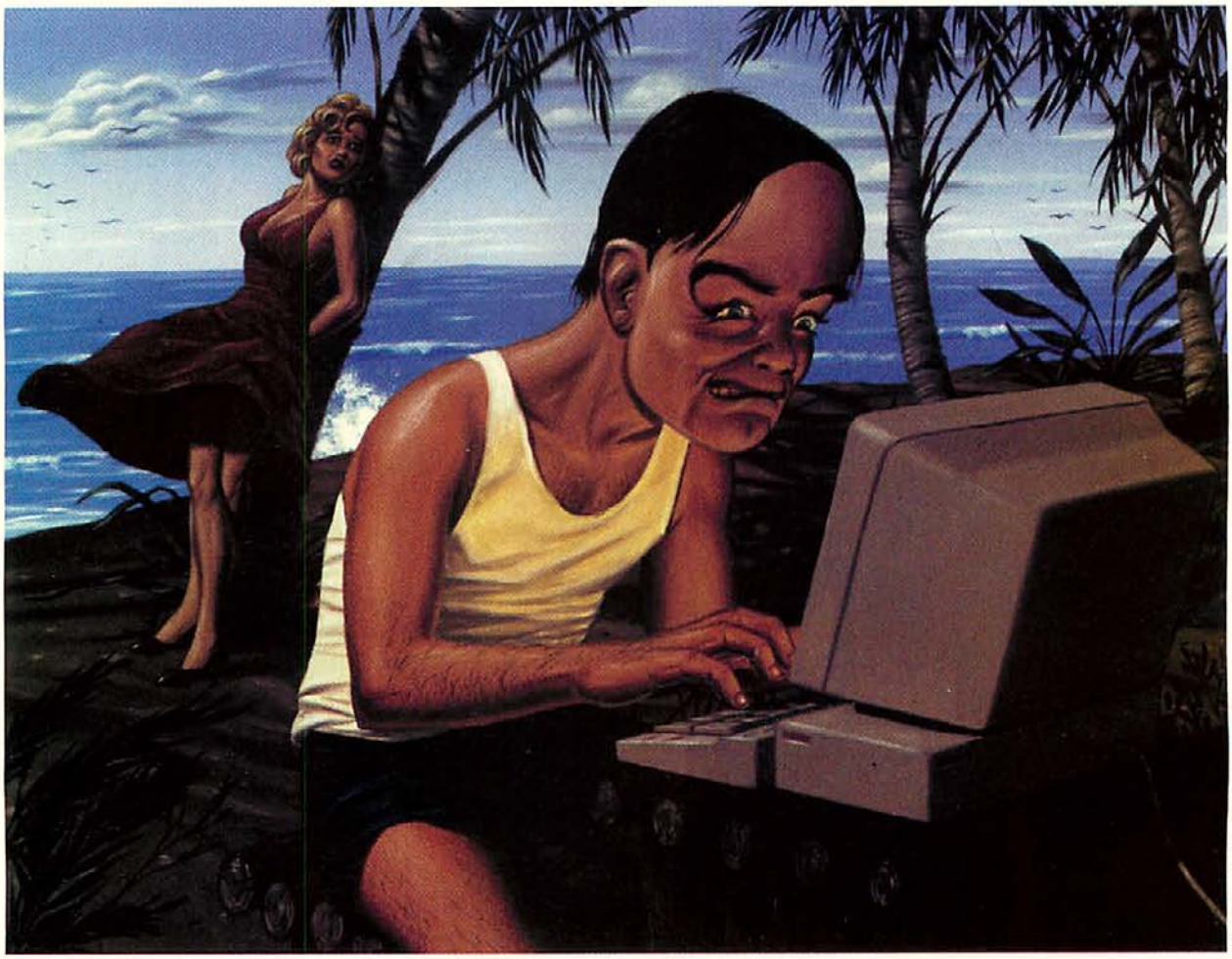


*Illustration by Brian Clarke*

When Chris Crawford asked both Sid Meier, game designer par excellence, and Greg Roach, theorist of the virtual cinema, a hypothetical question about being stranded on a desert island, it polarized the audience. "Which would you prefer to be stranded on the desert island with: a) Marilyn Monroe, b) the Library of Congress or c) the hot rod development system of your dreams and an unlimited power supply?" Greg Roach answered honestly enough, "I'm human...Marilyn Monroe." Yet, Sid Meier also answered honestly enough, "The development system, but I'd probably have the Library of Congress on a CD."

The question, oversimplified and ridiculous at it may be, underscores the constant tension between human need and technological possibility that is faced in computer game design. Game design is not a question of whether to reflect life and the human condition as much as it is a question of *how much* of life and the human condition should be portrayed. In like manner, game design is not simply a matter of an all-empowering "*Can* we do it?" but often a question of "*Why* should we do it?"

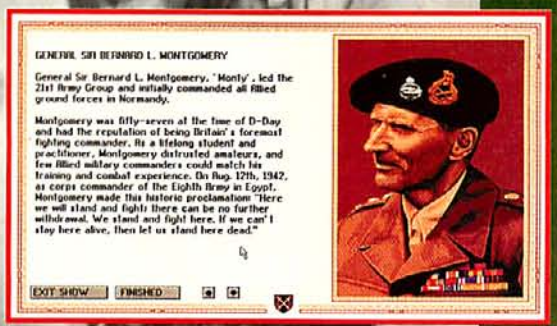
When designers get together, their concerns range all the way from that which is merely human to that which is purely technological. It is amazing, however, how often these two poles come together in a magnetic attraction. *CGW*'s editorial staff attended the Eighth Annual Computer Game Developers Conference and the summaries which follow reflect some of our editors' views of the most interesting sessions.

### TRANSCENDING THE BOX

In addition to the hypothetical question which set the stage for this article, moder-

# D-DAY

## THE BEGINNING OF THE END™




**Historically Accurate Personalities**




**Turn-Based Campaign Level**



**Micro-Miniatures Battle on Detailed Terrain**




**Reinforce and Build your Divisions**

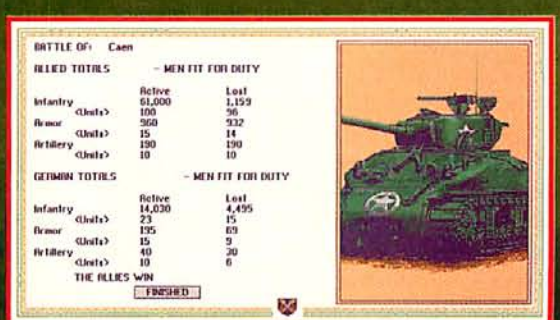
Play real-time animated battles within turn-based strategic campaigns from June 1944 through the end of the war.

**D-Day: The Beginning of the End™** is the latest in *Impressions'* Micro-Miniatures series. It even surpasses **"The Blue & The Gray"** in strategic complexity, and packs in the historical detail you demand.

As Supreme Allied or Axis Commander, the fate of Europe hangs on your decision. The challenge to the Allies: Establish a beachhead and smash through to Berlin. To the Axis: Break them and preserve the Reich.

**WARNING:**
*This is a wargame with a difference!*

- **Historically accurate army organization**
- **Leadership capabilities & Personalities**
- **Enhanced A.I.** • **Naval/Air Bombardments**
- **Accurate Field Weapons**
- **Supply & Reinforcements**
- **Detailed rural and urban terrain**




**Battle Results: Win or lose?**

©1994 Impressions Software Inc IBM PC VGA Screenshots

**Impressions™** *Committed to Excellence in Strategy Entertainment*

Impressions Software, Inc. 222 Third Street, Suite 0234, Cambridge MA 02142

ator Chris Crawford asked Interactive Filmmaker Greg Roach and Computer Game Designer Sid Meier some more substantive questions in the session entitled, "Multimedia versus Game Design." Roach was asked to define great multimedia and Meier was asked to define great games. The former answered that it takes an emotional connection that transcends the box. The latter agreed that, even in games, the best experience is when the games leave the screen and enter the player's imagination.

After that basic agreement, however, the answers began to diverge. For example, "What design problem makes you sweat the most?" Roach focused on the realities of digital video and trying to circumvent them. Meier insisted that discovering the elusive quality of fun is the toughest part of design.

Asked to describe their development environments, Greg described a bank of 22 programmers and artists working on Quadras and SGI machines. MADNESS OF ROLAND used HYPERCARD and MACROMIND DIRECTOR, but now his products require low-level machine language coders to manipulate the necessary digital images. Sid uses a 486/66 with Microsoft C. Roach spoke of the dialogue between programmer and artist as one of compromising between vision and limitations. Meier spoke of the necessity for synergy within the office and the new ideas that he can try that eventually benefit each project.

Asked to look toward the future, Roach visualized the next breakthrough coming with real immersive experiences becoming possible for mainstream audiences (he called them the "Potato Family"). Meier surprised veteran "Sid-watchers" by suggesting that interactive television will be the major revolution of the future. He perceives that game designers will become more facilitators of an experience than the creators. "Making environments where people can create their own fun" is Sid's goal. Meier also said that he thought the design process would become easier in a multiplayer environment because AI issues would diminish.

In conclusion, Crawford asked the two to offer their best "hunch" on whether multimedia and computer games will merge or diverge. Roach stated that he didn't think either side could ignore the other. Hence, he opted for convergence. Meier also opted for convergence, noting that digital video is already fun to look at, but will become more of a tool than a feature as we move forward.

**—Johnny L. Wilson**

### HOW THE OTHER SEX HEXES

A larger representation of women at this year's conference wasn't lost upon the mostly male conferees. Regarding their growing numbers and attractiveness was a popular pastime during breaks between seminars. Perhaps their entry into the industry will engender (pun intended) new games designed for women and girls, because the hobby is sadly underrepresented by females. Two speakers explored this topic in detail to suggest methods for designing games for girls and women.

The first, Heidi Dangelmaier, a former computer science student, brought the fruit of her research on children and video games to our attention. She found that boys and girls play games for different reasons, want different things from games, and have different reactions to the same gaming stimuli. Interestingly, she found that girls do not consider gaming machines inherently "male." Rather, it's the *games* they consider to be primarily "for boys."




**ROGER'S HEAD** Inspirational speaker Roger Van Oech breaks down the creative process into the stage version of "Herman's Head."

It comes as no surprise that girls consider games involving fighting to be for boys, and the same for games that don't have strong female characters. 85% of females said video games would be fun to play if more games were designed for them.

With today's video games, boys who play them tend to be twice as alert and excited as when involved with any other media; girls were more excited watching television. Girls think most video games are "a waste of time" and prefer to play games that are purposeful, practical and/or complete a task. When boys think of playing games that are purposeful or practical, their stress levels go through the roof!

Boys and girls want different feedback from a game, as well. Boys often turn the sound and voice off in a game, but girls want *more* feedback, not less. In one study, some children were given positive feedback for effort, while others were rewarded for ability. Effort-based feedback gave girls more confidence and motivated them to finish. Boys said that being rewarded on *effort* and not *ability* was condescending.

Boys prefer recognition for their ability because boys play to *win*. So, rules are important. Girls play to have fun. If the rules get in the way of having fun, they will bend the rules. As a result, girls play with custom rules until they get bored. Boys play until someone *wins*.

Finally, she said that the subject matter of the games separates the sexes. Boys enjoy combat, but they also have a predilection for finance and resources, science fiction and space. Girls? STORIES. Stories about people, characters, plots, and dilemmas.

Barbara Lanza, a game designer/editor at Byron Preiss International, explored the idea of stories in her lecture on "How The Other Half Plays." She considers interactive adventure games to be the best province for appealing to women. Girls like games which tell a story with what she calls "enhanced realism," meaning an interesting location, characters and plot. And since girls don't compete in life for points — they compete for affection and popularity — they would prefer games where winning accords higher social standing rather than a higher score.

Girls want fast startup times (no long rules to learn); fast play without emphasis on simulating boring procedures; a progressive plot that doesn't stop regardless of branch taken; and most importantly, no extended playing time with brain-teasers that aren't plot-related; and "hooks" which bring the player further into the game, instead of "locks" which require special knowledge or items to go beyond them.

**—Ken Brown**

### HOLLYWOOD BABYLON

There was a new group of attendees at this year's CGDC, and they were easy to spot. They weren't the ones with "Beer Is Food" T-shirts, creative facial hair experi-

ments, or a mouthful of technical terms. They were snappily dressed, reserved, and obviously out of their element. They were, as I overheard them named in many conversations, the "Hollywood types."

Many in the game community look warily at Hollywood's new-found interest in interactivity. The TV/film industry is seen as a major threat to creativity, true interactivity, and all that is held sacred in gaming. But at least one person was resigned to the inevitable invasion by Hollywood, and he stood at the gateway to the Land of Interactivity, waiting to greet these newcomers with a smile...and a message.

Ernest Adams, one of the CGDC board members, is a short, stout man with a wild beard who wouldn't look out of place in a lineup of renegade Old Testament prophets. So, it was appropriate that he chose to deliver his message, "Celluloid to Silicon" as a sermon directed toward the "Hollywood types" to both introduce them to the industry and to explain the resistance that they may have felt, or may yet feel, from the game design community.

First, he tried to explain what the software creation process is all about. He bemoaned the fact that there is no quick and dirty metaphor to explain the process of programming, saying that the only suitable explanation can be found in another name for programming—software engineering.

Engineers, he explained, are faced with problems and asked to solve them in novel ways, whether it be building a bridge, cramming an unheard of number of transistors onto a silicon chip, or creating a unique game world. Since an engineer never tackles the same problem twice, he or she has no idea how long a new task will take, or even how to do it. *Software* engineering is especially difficult, because unlike other forms of engineering, there are no rules, no code of ethics, and no standard practices. Software engineering is a young and trouble-ridden discipline.

The warning of the sermon was that software engineering is the essential ingredient in game creation—no software engineering, no dice. As Adams put it, "Engineering is the hub of the product...and engineering is awkward, and unpredictable, and slow, and it is unavoidable....Engineering isn't a metaphor for what we do: it *is* what we do. And if you're going to come into this industry, you're going to have to learn to deal with that."

Having given *that* warning, Adams proceeded to tell a brutal but honest truth: "The interactive entertainment industry is suffering from a grave shortage of creative talent."

"We make a lot of noise about storytelling in this industry. But just look at the things we are pleased to call 'stories'. Our plots are thin as tissue paper; our characters are two-dimensional at best...our so-called stories are utterly without meaning, moral, or message."

This is where Adams welcomed Hollywood with open arms. He welcomed the story telling expertise Hollywood has developed over its long history. He welcomed plotting, pacing, and directing techniques. He welcomed realistic dialogue and talented actors, but his invitation to Hollywood was not unconditional. Before Hollywood and gaming are united in creative matrimony, Adams wants a prenuptial agreement. "As much as we need you, we're also afraid of you."



**PISTOLS AND PIXELS** ***CGW*** **Editor-in-Chief Johnny Wilson expresses his concerns about the Video Games Rating Act of 1994.**

Adams has three fears. His first is the fear of any small community that is being invaded by another group — the fear of losing its identity. He is afraid that "our wonderful, wild, and woolly culture is going to be submerged beneath acres of oxford cloth and power neckties."

Secondly, Adams fears the corruption of advertising. He looks on the deplorable state of television as the prime example of how advertising can stifle creativity and control programming. "The Madison Avenue creeps who keep your creativity in fetters want to do the same thing to us."

In the same vein, Adams fears the movie industry's single-letter rating system. To illustrate his rant against the hypocrisy of the system, he presented slides of great paintings that would be restricted from public viewing because of "full frontal nudity." Michelangelo's "David" would have to be modestly breached. Renoir's "The Bather" would have to finish her ablutions behind closed doors ("Hasta la vista, Renoir! That young lady's vulva just blew Network Standards and Practices' tiny little mind!") Rodin's "The Kiss" would have to be veiled to protect family values. Finally, he paraphrased movie critic Roger Ebert, who once said that it is now more acceptable to show someone's breast being sliced off, than it is to show someone's breast being caressed. "A damning indictment of a very sick state of affairs," said Adams.

Although Adams' rant may have been a bit misdirected, as one could argue that the movie rating system is only a symptom and/or reflection of skewed societal values as a whole, it was nonetheless powerfully presented and insightful.

The exhortations given and the Book of Ernest read, Prophet Adams gave the benediction. "When you join us, bring with you all that is good about Hollywood, and leave behind the bad. Leave behind the chains." It was a strong and important message — too bad he was preaching to the choir, with only a handful of Hollywood types dotting the audience. Never fear, though; Adams will have plenty of opportunity to spread his word as the Hollywood invasion intensifies over the next few years. Let's hope his is not a lonely voice in the creative wilderness.

**—Chris Lombardi**

### WINNING WITH WinG

The technical buzz at the CGDC seemed to be a rush by the big boys (i.e., **Microsoft**, **Intel**, etc.) to get APIs (Application Programming Instructions) into the development environment. We thought the most exciting new API unveiled at the conference was WinG, a 32-bit DLL from **Microsoft**, designed from the ground up with game development in mind. Microsoft will be giving away WinG to build momentum for gaming in the Chicago/Windows NT environment. As a result of this effort, we should expect to see universal installation routines, hardware independence, and, for Chicago/Windows NT native games, an end to the 640K memory configuration haze that places a minimum technical expertise barrier over our hobby and keeps out the novice user.

To drive this point home, Microsoft had none other than the code masters at ***id*** **Software** port Doom as a native Windows application to Windows via WinG. Suffice it to say everyone in the room was blown away watching WinDoom run in a scaleable window in 640x480 resolution! I

played WINDOOM on a 486DX2/66 and the speed approached playing DOOM under DOS. Chicago and WING could usher in a whole new era for computer based entertainment.

For those of you who will be buried with your copy of MS-DOS, **Rational Systems** (the *DOS/4G* DOS extender guys) announced an API designed to utilize your low level MS Windows drivers. Via your WIN.INI and SYSTEM.INI files, a game written using this API would be able to take advantage of low level Windows drivers. This would be a boon for high performance games because the pinata of MS Windows accelerator graphics cards could be cracked wide open, sprinkling hitherto unknown performance down upon DOS games. To demonstrate this, *CGW* saw an impressive special version of DOOM running in high res and taking full advantage of a Diamond Viper VLB Windows accelerator on a Pentium rig.

—Mike Weksler

### OPPONENTS UNDAUNTED

Since most hard-core gamers feel that the way in which most recent computer games have failed to improve is in Artificial Intelligence, it seemed expressly apropos for Dave Menconi to host a roundtable on Computer Opponents. Of course, where we usually use AI as a catch-all term to describe computer opponents, Menconi avoided the discussions of neural networking, fuzzy logic and subtleties of computer code usually associated with AI. Instead, he steered the discussion towards what could be done to make the computer opponent more challenging and enjoyable for the average gamer.

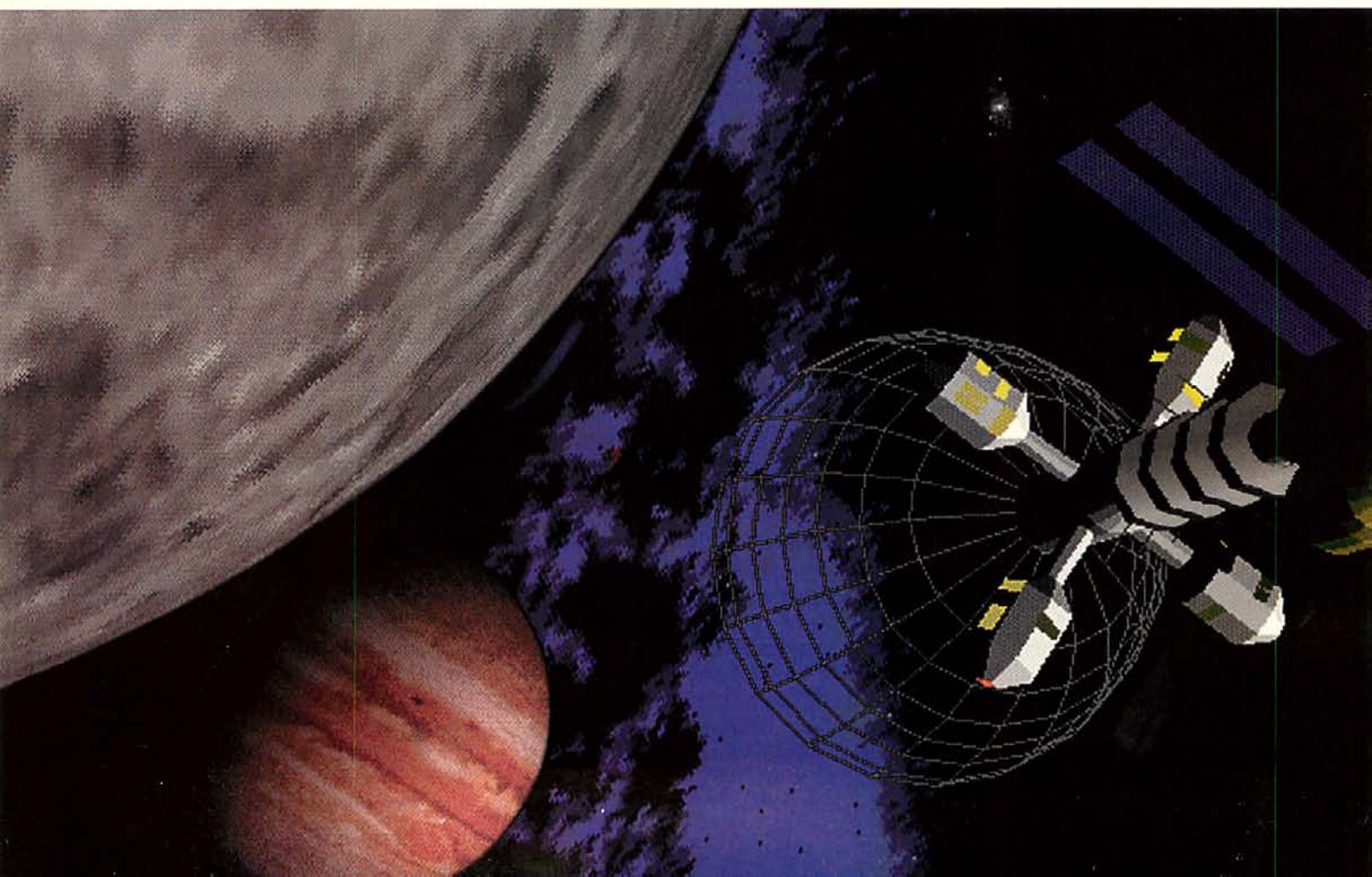


**WHAT-ME-WORRY? Chris Crawford satirizes the current philosophies within the computer game design community.**

Mark Baldwin, designer of EMPIRE DELUXE, commented that he aims for sophisticated designs which will appeal to the more hard-core gamers, with enough "fun" elements to appeal to a larger market. One of the main ways he does this is to give gamers control, so that they feel that their decisions significantly impact the game.

AI is primarily used so that gamers may play solo, and will continue to be until telegaming possibilities improve. So, for Baldwin, modem play should be included, because the audience expects it—but that doesn't allow him to neglect the AI. Rather than expect an opponent limited to 640K to consistently beat a human, Baldwin simply tries to design an AI which will challenge and be unpredictable over a long period of time. Roger Keating chimed in with the fact that DUNE II totally neglected AI, yet was still perceived as a challenging opponent.

Menconi reminded the group of the old Atari days and Chris Crawford's EASTERN FRONT game. Since there was no way an Atari 800 was going to take on a human on anything like even terms, the game was



modified accordingly. For example, they found a bug in the game where the Russian units controlled by the computer would advance into better positions during the retreat phase. They left the bug in to make for a much more challenging game.

Roger Keating at SSG is renowned for challenging AI. One of his keys is a system to stop the design in progress at any point and see what the AI is doing. By isolating the AI from other aspects of the game he is able to have a better strategic AI. For instance, it is simple to get one unit to perform realistic and competent autonomous operations. When cooperation is necessary between several units, most AIs begin to break down, but this is where Keating's games shine. Roger uses "screw points" to balance the game, and continues turning the "design screwdriver" until the game plays in a challenging way.

Keating uses a hard-coded map to let the AI know what routes for advances are available, then randomizes the avenues of approach by unit type, so that air units may show up on one flank and ground troops another, with the timing realistically coordinated. Much the same approach is used in the CARRIERS AT WAR system, where the reinforcements vary, and strategic goals are chosen from a Warcard deck.

Roger reminisced about a bug in his classic REACH FOR THE STARS, where if the human player did nothing, he would amass great wealth while the computer opponents warred among themselves. Roger added a feature that kicks in when the human player has accumulated 20,000 credits, whereupon the AI opponents rise up and stomp him.

Menconi, Keating and others commented that most designers were essentially honest people, but that it does get difficult listening to gamers complain about "cheating AI." Worse, gamers get upset at honest computer opponents, and defeat them using tactics they would never use against a human. The rules of the game may still be "fair" but written to reflect the strengths of the AI, rather than being biased towards the player. Some good examples of this would be the diplomatic systems for both WARLORDS II and MASTER OF ORION, where the randomness keeps things lively game after game. Another suggestion was to make victory points variable to a small degree, or other similar changes, which keeps the "number-crunchers" from cracking the code easily.

Menconi and company left would-be designers with the following action points. First, AI should be the focal point of the design, changing as the rest of the game changes, instead of being a last-minute "enhancement." Second, whether using real-time or turn-based play, don't end the human player's turn "without permission." Third, don't let the AI cheat so obviously that a human player feels he must "look behind the curtain," but don't be afraid to tweak the AI in ways that make it seem that a human opponent is attempting to drive your forces from the gaming field of battle.

**—Terry Coleman**

### NO GAMER IS AN ISLAND

So, if you were stranded on a desert island, would you want: a) a change of address for your *CGW* subscription; b) the latest Sid Meier game, but no computer; or c) Sharon Stone with a big knife in her hand? Well, you'd think we learned enough about game design to write a question where we're likely to win, wouldn't you? After all, there's no point in attending a conference if you don't learn something.




**If it were any more real, you'd be drinking Tang.**

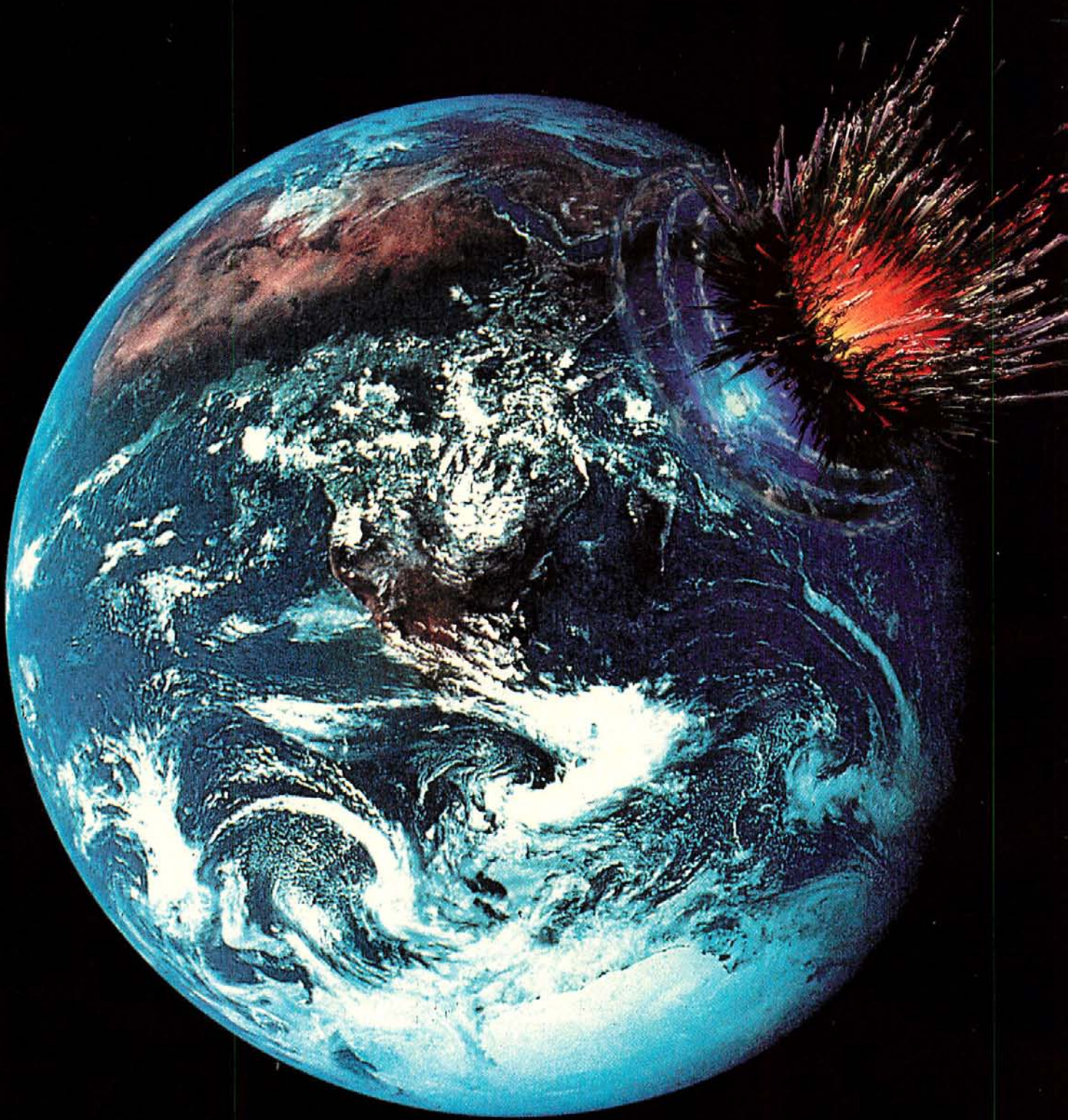
New Microsoft® Space Simulator is so authentic, the Johnson Space Center at NASA has asked for it. Select your spacecraft from our fleet and blast off. Once in space, command your ship in our free-flight mode. Explore the fiery red canyons of Mars, or the explosion of a supernova, all based on actual satellite data. It's just one of the realistic simulations we have waiting for you to take control. To get off the ground, shuttle over to your reseller and pick it up.




Microsoft Home

© 1994 Microsoft Corp. All rights reserved. Microsoft is a registered trademark of Microsoft Corp. Flight Simulator is a trademark of Bruce A. Artwick.

# THERE GOES THE



# NEIGHBORHOOD.

Boom. Earth is destroyed by a catastrophic event, and you're responsible for rebuilding civilization on another planet. Lucky you. Where you go and if you survive is up to you – there's a galaxy of possibilities.



Based on NASA research in planetary science, robotics, terraforming, and interstellar spacecraft design, *Outpost* places you in control of the most comprehensive strategy simulation ever developed for the PC. No kidding. From the colonization starship to the robominers and monorail systems you'll use on the planet surface, *Outpost's* photo-realism and 3-D rendered animation are unprecedented.

Develop agriculture, mining and manufacturing to survive, and then invest in research and recreation facilities to make life more comfortable for your colonists – hopefully they'll be around long enough to enjoy it. Because, in the end, the decisions you make will determine the destiny of mankind.






OUTPOST

BUILD MANKIND'S FUTURE IN SPACE

SIERRA®

**See your local retailer or call 1-800-757-7707**

*Circle Reader Service #111*

A SkyRealms of Jorune™ Adventure

# Alien Logic™




Coming Summer '94

Leave Your World Behind™

SSI®

# Virtues And Vices




PAGAN, THE PURPORTED ULTIMA VIII, IS UNLIKE ANY OTHER Ultima you may have played, and that includes both UNDERWORLD games. If you were expecting characterization, rich story, role playing—you're expecting it from the wrong game.

There are, in fact, so many things wrong with PAGAN that it's much easier to start with what is right. First, most of the technical problems associated with the previous ULTIMA are gone. The Voodoo memory manager has finally been dumped; as a result, the game runs under my regular system configuration (DOS 5 and QEMM) without a hitch. While a few people have mentioned configuration problems, by far the majority of players I've talked to have been able to run the game with their standard setups.

The game itself is remarkably bug-free. It never crashed or locked up on me, although there were a couple of instances where the Avatar became stuck and couldn't be moved. I am not sure what caused that, but it was very rare. Overall, PAGAN is a very clean game.

Unlike the previous ULTIMA, items placed in the Avatar's backpack will stay where they are, instead of being jumbled around at random. Eventually, of course, you'll be carrying so many objects that they pile on top of one another, but those used often can be kept on top, and they will stay there.

As in SILVER SEED, there is a key ring that keeps all your keys together. You just put keys on it as you find them, and use the ring to try and unlock a door. If the right key is on the ring, the lock opens.

**IN ULTIMA VIII, LORD BRITISH AND THE AVATAR TRY TO CUT A NEW PATH FOR THE RPG SERIES. IS IT THE ROAD TO RUIN?**

## SCRY SIGHT

**No official announcement has been made yet, but sources close to LucasArts Games indicate that a new Indiana Jones movie may be in the works and that a computer game may be developed parallel to the film production. ... Bethesda Softworks has announced that the sequel to THE ELDER SCROLLS: ARENA will not be THE ELDER SCROLLS: MOURNHOLD. Instead, the next installment will be THE ELDER SCROLLS: DAGGERFALL. ... Sir-Tech Software expects STAR TRAIL, the sequel to REALMS OF ARKANIA and second in the expected trilogy, to reach store shelves by year's end. ... Pepe Moreno, designer of HELLCAB for Time Warner, has agreed to develop an as yet unannounced multimedia entertainment product for MediaVision. ... New World Computing is working with Andre Norton on WITCH WORLD, based on the Andre Norton classic novels, and will be developing the game with something of the look and feel of BETRAYAL AT KRONDOR, but using bitmap graphics instead of polygons.**

### FEELING LONELY?

For the first time since ULTIMA II, the Avatar goes solo, a strange experience for an ULTIMA. At least we are spared the idiot parade of companions that blithely walked into obvious traps and campfires, whined incessantly for food, and usually hit each other in combat. Eating, by the way, is no longer a requirement in the game. While there is food around, it isn't necessary to chow down every so often to stay alive.

Saving and restoring are faster than in SERPENT ISLE. Saving a position is still a little slow, although nowhere near the minute or more we

endured in the previous game. Restoring a position is, comparatively, quite speedy, and a good thing, too, as frequent restoration is a necessity.

After that, sad to say, it's all downhill. You've probably heard that there is running, jumping, leaping, climbing and dodging in PAGAN, and that is true. The game might easily have been called, as a friend of mine put it, "Mario: The Avatar." If the name "Ultima" wasn't on the box, you might think you'd picked up the latest Sega or Nintendo game by mistake.



**AM I BLUE?** Touring the Den of Skulls is a vacation only a necromancer could enjoy.

In fact, after playing for awhile, I couldn't help feeling that **Origin** had ideas of marketing this on the Sega or 3DO, and put in the ludicrous arcade action to appeal to the console crowd. There certainly doesn't seem to be any other reason for including arcadish antics in a series that has become famous for the maturity of its storylines and approach towards computer role-playing.

Does all this leaping around add realism to the game, increase the power of the story, or enhance playability or fun? No, it simply makes PAGAN a frustrating experience, especially since judging angles and distances is very tricky, and one mistake means restoring the game and trying again. I have never, in any other CRPG, saved and restored as much as in this one.

### REMEDIAL SPELLCASTING

That might have been acceptable, barely tolerable, if the rest of the game were substantial. As it is, PAGAN could well be subtitled "School Daze," as a good 75% of it is having the Avatar prove he is worthy to belong to a particular magic organization. "You want to be a Necromancer? First, you must be tested!" "You want to be a Theurgist? First, you must be tested!" "You want to be a Sorcerer? First, you must be tested!"

Worse yet, magic here is cumbersome and awkward. In a misguided attempt to make it as different as possible from the magic of Brittannia, Origin created a nightmare of multiple systems with differing requirements. Forget the handy spellbook that did all the mixing for you and made spellcasting simple. Now it has become a chore.

Necromancy spells require reagents, an empty bag, and a magic item. You put the reagents in the bag, then use the item on it to create a token. Clicking on the token releases the spell, and of course the token is used up. Each spell requires a different token.

Theurgy spells use magical foci. First you have to gather the silver ore, then you take it to the blacksmith who forges the ore into foci—one focus for each type of spell. Clicking on the focus releases the spell, but in this case, fortunately, the focus doesn't vanish and can be used as many times as you wish.

Miscellaneous spells, sold by the hermit on the plateau, require books and reagents. As you probably guessed, it takes one book per spell. At least mixing reagents isn't necessary for these.

Sorcery spells are the ones that will drive you crazy, as they are the most elaborate. Here, you actually enchant spells into an item at a pentagram, a process whose tedium and frustration cannot be adequately conveyed by mere words. First, you read the spellbooks in the library and write down the directions for each spell, because these are not contained in the game manual. The books only mention the placement of red candles around the pentagram. You have to infer (from reading another book) that black candles must be placed at any point that doesn't have a red one. If you don't realize this, enchanting can be even more of a nightmare than it already is. Next comes the placement of the reagents. These are also put at various points around the pentagram. Then the item to be enchanted is deposited in the center, and you click on the pentagram and hope for the best.

If nothing happens, you have to run down a mental checklist to see what went wrong. Are the right candles in the right places? Are the candles lit? Are the right reagents placed at the right points, and are they properly placed? The game is *very* picky about that; if a reagent, especially one next to a candle, isn't exactly right, the spell won't go off. Finally, is the right item being enchanted? Not all items can hold all types of spells. When everything is at last correct, the enchantment goes off and the item is filled with a variable number of charges for that particular spell. You have to go through this inane charade for every spell you want. There are a couple of places where you can find pre-enchanted items, but you still have to make up at least four or five of your own. This is fun?




**ADVENTURER'S PAK 3000** You may not be able to pack all your troubles in the old kit bag, but it sure makes it easier to keep track of your inventory than in previous Ultimas.

### THE PLOT THINS!

The story, such as it is, can be summed up

**Ultima VIII: Pagan**




**System:** IBM
**Requirements:** 486-33MHz or better, 4MB RAM, 25MB hard drive space, mouse; supports AdLib, General MIDI and Sound Blaster sound cards
**Price:** $79.95
**Protection:** None
**Publisher:** Origin Systems
Austin, TX
(512) 335-5200



A maniacal,

carnage-loving

Kzinti Patriarch,

a paranoid fleet of Puppeteer

worlds, and

the entire Kzin

and human races want you dead.

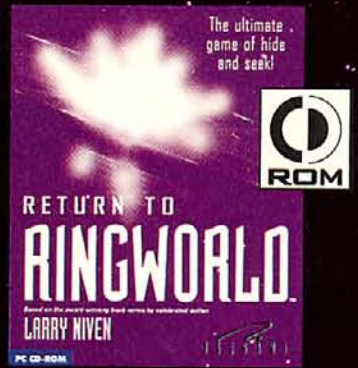


Imagine if they knew you held the secret to space's greatest mystery, too.

RETURN TO RINGWORLD™

Based on the award-winning book series by celebrated author Larry Niven.

You're a 29th-century fugitive, hunted by every society in Known Space. But that's what you get for preventing Puppeteer genocide and averting another interstellar Man-Kzin war. In *Return to Ringworld™*, the breathtaking sequel to *Ringworld: Revenge of the Patriarch™*, your heroic adventures force you to run and hide for your life. That is, until you seek to uncover the greatest mystery of Known Space. This riveting feature-length adventure lets you instantly alternate the action between three main characters, all within a massive play area designed for endless exploration. VGA-rendered, 3-D cinematic graphics—plus full-motion animated effects and digital stereo sound—turn science fiction into reality. Welcome back to Ringworld...and to the ultimate game of hide and seek!




*Visit your local retailer or call 1-800-482-3766*

TSUNAMI

Distributed by
TIME WARNER INTERACTIVE
2210 Olive Avenue, Burbank, CA 91506

D4T108P2

Circle Reader Service #186

as "Homeward-bound Avatar Wrecks World. Film at 11." Pagan is a shattered land, crushed centuries before by the Guardian through the actions of the four Elemental Titans (Earth, Air, Fire, and Water). Over time, however, matters improved a bit. The two obstreperous Titans, Hydros and Pyros, were magically bound, so they cause little or no trouble. Lithos receives the dead and is content; Stratos, the benevolent one, shares her power with the Theurgists for purposes of healing. Pagan may not be a happy place, but at least the inhabitants have achieved stability and can survive. Along comes the Avatar and blows it all away, in a very Un-Avatar fashion.

He lies to become a Necromancer; joins the Theurgists solely to steal an item (thereby negating their spellcasting abilities); betrays a Sorcerer who trusted him (thereby becoming an accessory to murder); kills (in supposed self-defense) the Master of Sorcerers to obtain another needed item; and frees the two bound Titans, so the world is wracked by continual violent storms and lava rain. Then he goes on his merry way to the Void, where he destroys all four Titans, with hardly a thought for the consequences of all these activities.

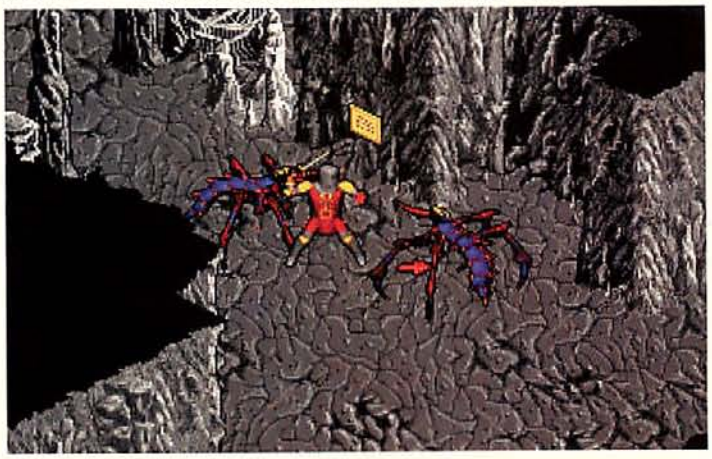
Then again, given the arcade atmosphere, shallow characterizations, and emphasis on action over thought, it is perhaps not surprising that the Avatar has been reduced to nothing more than a self-serving robot. In fact, the very term "Avatar" has degenerated into being only a trademark of Origin Systems; it has lost all meaning insofar as the game and the spirit of Ultima is concerned.

The word "robot" is used deliberately. You never see the screen character's face; the entire head is hidden by a helmet. Whenever he stands still, he comes to attention, awaiting the next order. There is nothing human about it. For the first time ever in *any* CRPG, I felt no identification whatsoever with the character. It was only a thing on the screen I maneuvered to get through the game, and nothing more. It's just as well, then, that the "Avatar" can only be male.



**RING OF FIRE** Upsetting a Thaumaturge is a sure-fire way of getting a very warm reception.

Movement and combat have their drawbacks as well. The mouse button has to be held down continuously to make the character walk; you can't simply click on where you want it to go. Speed is controlled by the length of the arrow cursor; the longer it is, the faster he moves. This is not always easy to control. There are times when the arrow suddenly elongates, sending the character into a run in locations where it is dangerous do so, such as cliff edges and fire mushroom caverns. The simple act of walking through a door can be an exasperating experience as well.



**DANCE WITH DEATH** Get used to a lot of combat, as the Avatar is a veritable magnet for creatures with a bad attitude.

Combat is much the same. There is no auto mode; you have to do all the maneuvering yourself. If the character is not lined up precisely right with the oncoming critter, he just smacks empty air while the monster shreds him. Fortunately, almost all the monsters are stupid and slow-moving, so they are easy to avoid except in the most confined spaces.

In a departure from all previous ULTIMAS, there are no character levels here, no experience points. Instead, the three attributes of Strength, Dexterity, and Intelligence are increased, to a maximum of 25, by engaging in combat or casting spells. The real purpose of fighting, therefore, is to bring up strength so the character is able to carry more stuff. Once strength has reached maximum, combat serves no purpose and should be avoided unless absolutely necessary.

There are other things I could go on about: weak points in the plot, hollow conversations, cardboard-character NPC's, monsters that ignore everyone but the Avatar, the amazing apathy of the inhabitants (no one seems to notice the terrible storms or lava rain), but just mentioning them is enough.

Overall, PAGAN is a disaster, and an embarrassment to Origin, Lord British, and ULTIMA fans everywhere. It tries to go in two directions at once, and succeeds only in tearing itself apart, failing dismally on all fronts. It may have "Ultima" on the box, there may be an "Avatar" (of sorts) in it, but that does not make it an ULTIMA. Given what I experienced here, I am not looking forward with any eagerness to ULTIMA IX. If there is one, we can only hope it will not be anything like this.




**SEEKING AUDIENCE WITH THE KING** As you approach this powerful ruler, you'll get stony looks in more ways than one.

# ROBINSON'S REQUIEM™

Robinson's Requiem is a survival/adventure simulation set in a startling realistic virtual environment the like of which has never been seen before.

***The Scenario***

Imprisoned on an alien planet your aim is to escape. If you have to amputate one of your own limbs to stay alive, then that's what you must do. Features more than 100 variables managed in real time: your body temperature, stress, fatigue, pain, disease, gangrene, hallucinations...

***The Prison***

A spectacular world mapped in 3D, computed and displayed in real time. Over 3 square miles of play area includes: canyons, hills, waterfalls, and caves.

***The Challenge***

Hunt and gather food, find water, make your own clothing and weapons, deal with health hazards and fight off predators, test your survival skills to the very limit, and get the hell off the planet!








***Available for:***
***PC 3.5"***
***PC CD-ROM***
***Mac 3.5"***
***Mac CD-ROM***
***3DO***

3DO

***For more information contact:***
**ReadySoft Incorporated**
3375 14th Ave., Unit 7
Markham, Ontario Canada L3R 2L6
Tel: (905) 475-4801 Fax: (905) 475-4802

***Now available from:***
**CHIPS & BITS**
P.O. Box 234 Rochester, VT 05767 Dep. 10073
Call: (800) 699-4263 Fax: (802) 767-3382
Int'l: (802) 767-3033 Source 10073

Silmarils

READYSOFT

© 1994 Silmarils – All rights reserved. Robinson's Requiem is a trademark of Societe Silmarils.
3DO, the 3DO logos, and Interactive Multiplayer are trademarks of The 3DO Company

Distributed by ReadySoft Incorporated.

# The Straight & Narrow Path Of Pagan



*Scorpia Takes You On A Walking Tour Through Ultima VIII*

THIS MONTH, WE OPEN THE DOORS ON A SLIGHTLY DIFFERENT TALE. FOR THE FIRST TIME EVER, WHAT FOLLOWS are not hints, but explicit directions on getting through some of the tougher parts of PAGAN (if you don't want to see this, better stop reading now). I have taken this step mainly to help anyone playing it to finish quickly and move on to better things. So, let's get on with it.




Combat is generally best avoided whenever possible. Still, you want to bring your strength up to maximum quickly to carry more stuff. The easy, if tedious, way to do this is to find a quiet place (the palace cellar, for example), and just stand there bashing away at a wall or door for awhile. Eventually, your ST and DEX will reach their maximums of 25. However, the only way to increase INT is to cast spells, and plenty of them.

Money isn't all that important. You will need 250 coins at the end to purchase Ethereal Travel from Mythran, so make sure you have that much put aside. You do NOT need any of the other spells he knows, so if you want to save money, don't buy them. You do need to buy the secret door scroll, though, as it's needed in a couple of places later on.

As for all the jumping, I don't have any tricks to share. It is wise to save after every jump when possible (*never* save on anything that isn't stationary). Angles are often tricky, and it isn't always easy to judge distances correctly. The path to Lithos is the single worst sequence in the game. After that, it's not so bad, but you will be doing leaps and jumps right through to the end, so get used to it.

**Tenebrae:** Find the library and talk to Bentic. This is the beginning of the main path through the game. Talking to him will trigger certain responses from Mythran that otherwise do not appear, so make sure you find the library and have that chat.

**Hermit:** Leave by the north gate and follow the road up to the cave that leads to the Plateau. The cave is a straightforward path, although do be careful at the jumping stones. To open the southern gates in the cave, cross the bridge to the ruined building. Do not touch the single lever standing apart from the others. Pull all levers that do NOT have bones or bodies in front of them. Then recross the bridge and pull the lever by the winch. Continue on and out to the plateau and Mythran's house.

Mythran will give you the recall device, which can teleport you instantly to any active receiver on the island. It will work anywhere except one place: the Sorcerer enclave. You CANNOT teleport out of that area, although you can 'port in. You have to go all the way back to the double doors before you can teleport.

**Special Reagents:** The executioner's hood is in a pit south of the graveyard entrance (the stone arch). A couple of changelings wander around in it. The hood is in the center; the leaves are hard to see, so look close. The sticks (they look like twigs) are under the tree by the burned-out house in West Tenebrae. No other wood will be accepted.

**Catacombs:** This is a nasty place, with plenty of undead roaming around, traps here and there, and floors that occasionally give way, dropping you to an unpleasant death. Be careful where you walk, and save often (it's usually safest to stick close to the walls, but that isn't a complete guarantee of safety).

Find the small, freestanding, roofless room, with a ghoul and a jewelry chest inside. When you enter, the floor gives way, sending you down to the beginning of the path to the Necromancers.

One troublesome place is the lava. Jump over it and climb to the top of the rock island. Walk north, watching for a big single rock on the right-hand side. Jumping to that will teleport you to the next Necromancer.



LOST AND LONELY? If you feel a little too much like a hermit in Ultima 8, read on.

**Now Includes an MPEG Version of THE HORDE**




You've got the sound.

You've got the CD-ROM.

# Now get the picture with ReelMagic Lite!

You've got the 16-bit sound card and CD-ROM drive—now all you need is ReelMagic Lite to join the MPEG revolution! ReelMagic Lite is the world's first MPEG video playback card. It will change the way you look at multimedia forever, at a price you can afford today.



The MPEG process delivers 200:1 monster data compression for full-screen, full-motion TV-quality video, along with CD-quality audio playback—all from your standard CD-ROM drive. That's what gives your interactive MPEG entertainment "walk-in" realism and puts your favorite movies on CD-ROM.*

GET THE PICTURE WITH MPEG

The MPEG experience sets the new industry standard in visual excitement—send *Top Gun* rocketing across your entire screen or watch the first lunar landing on *Compton's*® interactive encyclopedia! And many more next-generation ReelMagic MPEG interactive entertainment and movie titles are on the way. As an added bonus, when you get ReelMagic Lite you'll also receive the MPEG version of a thrill-packed, live-action adventure game FREE!

| | 30 fps MPEG video playback | CD Quality MPEG audio | Ad Lib, DOS game-compatible† | Dual Speed CD Drive | Stereo Speakers |
|---|---|---|---|---|---|
| ReelMagic Lite | ✓ | ✓ | | | |
| ReelMagic | ✓ | ✓ | ✓ | | |
| ReelMagic Multimedia Kit | ✓ | ✓ | ✓ | ✓ | ✓ |

†*Plays popular Sound Blaster™-compatible games.*

Call **1-800-845-8086 ext. 407** for your nearest ReelMagic dealer—and blaze into the future now with MPEG!

SIGMA DESIGNS®




*These are just a few of the many exciting ReelMagic titles available now.*

*Call Sigma Designs to inquire about CD-ROM drives compatible with movies on CD.

MPEG, the Motion Picture Experts Group, is the industry standard for data compression and decompression. © 1994 Sigma Designs, Inc. The Sigma Designs logo is a registered trademark, and ReelMagic is a trademark of Sigma Designs, Inc. All other brand and product names are property of their respective owners. Specifications subject to change without notice.

**Path to Lithos:** In the catacombs, enter the small door leading to the caves. Go generally southwest and then west, until you reach an area with two stone bridges. Cross the lower one, and continue to the fire dart trap with a wall in front of it. In the center of this area is a pedestal with a switch. Pull it, then climb the pedestal and jump over to the door that leads to Stone Cove.

In the cove, call up a golem to open the double doors. You must cast the spell on *dirt*, not stone. Remember this is an earth golem and it can only be created from earth.

Go northeast to the ruined house. Be careful; part of the ground here is unstable. Pull the lever outside, then climb in and pull the other one. Go around and up to the northwest, passing a large rock with an "A" rune on it. Dodge the fireball spitters and continue up to the end of the passage. A bridge has now appeared across the chasm to the left.

This is the start of the jumps. You must pass the disappearing bridge, the sliding platforms, the vanishing platforms, the forcefield area, the fire mushroom cave, and then the sinking stones.

Past the stones, as you go up north, stay close to the west wall and watch for two narrow passages (these are very easy to miss, so watch carefully!). The first passage leads to a chest with some potions, under which is the key that unlocks the door in the second west passage.

That door leads to more sliding platforms. After you get across, simply walk north between the rows of undead, and have your little meeting with Lithos (whew!).

**Pit of Death:** Reached by going through the small door in Stone Cove (Scion Key opens it), and heading west. You'll come to the Conventicle of the Dead pretty quickly. Walk right up to the building. Cast a golem spell on the dirt patch inside and have the golem open the door. Use Open Earth on the center of the dirt to get the Heart of Earth. Once you have that, you are finished with the Pit of Death.

**Fate Door:** Open with the Scion Key. Summon up golems to open locked doors. Drop the Zealan shield to animate the statues. Use the secret door scroll to get into Khumash-Gor's room.

**Argentrock:** The test of wisdom is tricky, as there are NO books in the library about their philosophy; all the reading material is about the air spells. This makes answering the questions properly somewhat difficult.

The key to the correct answers is to keep in mind the precepts of honesty, compassion, and humility. For instance, if you're asked about the dying commander, you tell him honestly the battle has been lost. Likewise, if you get the one about the prodigal, you welcome him back. If others are boasting about their favorite Titan, you keep your mouth shut and say nothing about Stratos. And, of course, you would prefer the breezy porch (Stratos being an air deity).



**COMBAT CHAOS** Death and destruction are everywhere, as the bodies pile up in classic arcade style.

**Thief:** Talk to both Xavier and Stellos, mentioning that you have talked to Torwin. Then find Cyrrus, cast Hear Truth, and question him about Torwin. You'll learn that Torwin has gone to Windy Point. NOTE: Torwin does not appear at the Point until you hear about it from Cyrrus.




**DIALOGUE DILEMMA** Even with the arcade sequences, you must still get a lot of info the old-fashioned way—interacting with NPCs.

**Devon:** After Devon has been arrested, you have to read Bentic's journal, which is in the evidence room (far right) in the palace cellar. Use the secret door scroll to get in and read the journal.

**Sorcerers:** Devon will send you to them after Hydros is free. In the caverns, find the double door with spikes on top. The lever outside makes one door go down and the other come up. Ignore the lever and find the hard-to-see switch on the left-hand wall; this lever opens up a secret door to let you through.

The game manual doesn't have much to say about the details of Sorcerer spells. You will have to write down on your own the constituents of all the spells, as well as the placement of candles and reagents.

Things to keep in mind when enchanting: All the points of the pentagram that do not have red candles must have black ones. All candles around the pentagram must be lit. Reagents must be placed *exactly* right, especially when next to candles.

**Obsidian Fortress:** The spells you need to have are Flash, Armor of Flames, Endure Heat, Extinguish, Ignite, Banish Demon, Flame Bolt, Explosion, and Summon Demon. There is a talisman for Summon Demon in the tests, so you don't need to make one. However, a talisman with several Banish spells is handy. Be sure to pick up and keep an extra red candle.

The tests are fairly simple in themselves, as long as you are reasonably careful. I found that using Fade From Sight was helpful, as not even demons can see you when you're invisible.

**Endure Heat & Flash:** these are relatively easy, both having short, straight paths to the symbols.

**Armor of Flames:** There are two things you want to find. One is the Summon Demon talisman. The other is a pentagram with a demon shield on it. The symbol is due south of the shield (functions as an AoF spell when equipped).

**Extinguish:** Find the flaming pentagram and use extinguish on the *candles*, not the big flames. When the last candle goes out, all the flames will go out as well, allowing you to take the magic helm and the symbol below it.

**Tongue of Flame:** Unfortunately, the only way to get it is by killing Malchir, as he has the Tongue on his person. Be certain to read the book, "The Destruction of The Temple." It has the only mention of the "Tear of Seas." Until you have read the book, you won't be able to get the Tear from Devon.

**Freeing Pyros:** Go to the big outdoor pentagram and toss the Tongue into it. After the fireworks stop (Pyros has been freed), take the Tongue back.

**Tear of Seas:** Find Devon in the palace




## Introducing Two New Sound Galaxy Multimedia Upgrade Kits.

This ain't no dude-ranch ride. It's complete, high-tech, plug-and-play multimedia like you've never seen before.

The Sound Galaxy Voyager and Asteroid Multimedia Upgrade Kits blast out of the gate with everything you need for multimedia action. Both come with our multi-session Photo CD compatible double speed CD-ROM drive, and a Sound Galaxy Nova 16 sound board with support for all major sound standards. On top of that, Asteroid gives you stereo headphones, software, 4 CD-ROMs and more. And Voyager throws in a pair of powered speakers, a microphone, tons of Windows sound and productivity software and 7 of the hottest CD titles including Macromedia Action 2.5™, Indiana Jones and Comanche CD.™




So if it's high-performance multimedia action you want, ride down to your retailer and saddle up the Sound Galaxy Multimedia Upgrade Kits. They're packed with a lot more technology for a lot less than other kits. Making them one high-tech ride that's worth the buck. Call now for a dealer near you and get a free Space Quest IV CD-ROM coupon.* Every 50th caller wins Space Quest IV instantly!

**Call 1-800-781-1188 Ex. 12G**

AZTECH

*Free CD-ROM title with proof of Sound Galaxy upgrade kit purchase, see coupon for details. One call per person, while supplies last. Aztech, the Aztech logo, and Sound Galaxy are trademarks of Aztech Labs, Inc. (510) 623-8988 ©1994

and ask about the blackrock fragment. Eventually, he'll recall the odd rock he found and give you the key to the chest, which is in a room on the left-hand side of the palace. Only Devon's key can open this chest.

**End Game:** Show Mythran the Tongue of Flame. Then talk to him a second time (new conversation), and say you want to re-create the gate. He will offer you the Ethereal Travel spell (he will only do this when you have all the pieces, the two titans have been freed, and he's seen the Tongue). There is no return from the Void (recall will not work here), so be sure you have everything you need/want before leaving.

The Void has a large pentagram and four paths off it. These, of course, lead to the four titans. You can do them in any order. After each blackrock fragment has been powered, put it on the pentagram in one of the following locations: Breath SW, Tongue NW, Tear NE, Heart SE.

**Hydros & Stratos:** These are not too difficult, as for both you just need to do some jumping across stones. Be careful on the way to Stratos, though; some of the stones break away when stepped on.



**FOCUS POCUS** Theurgical magic requires transforming silver symbols into magical foci upon this altar.

**Pyros:** Jump north across the lava from where you start. Go east, then south, and cross the second broken bridge. On the other side, go east, then north to the dead forest. It's safest and fastest to walk along the forest's outside southern edge.

At the end is a box with ten white balls in it. Be careful; the ground is not stable, and you might fall into a lava pit. Take the box, go back the way you came, over the bridge, and north to the design with flashing colors. Put one ball on each color, then Jump/Flash across the stones to Pyros.

**Lithos:** This one is perhaps the most difficult, as you have to make your way through a series of caves. Keep going until you come to the place with the lava and stones. You can walk around the edge of the lava and reach the other side without jumping. Continue on, until you come to a cave with a triangular corner in the north wall. That is where Lithos appears, so be sure the Heart is ready.

Once the four activated blackrock fragments have been placed on the pentagram, along with the obelisk tip, double-click on the tip, then on yourself. This activates the tip, and automatically brings the black gate into existence. Step through, and your long odyssey is finally over.

That's it for now. In the meantime, if you need help with an adventure game, you can reach me in the following ways:

On Delphi: Visit the GameSIG (under the Group & Clubs menu).

On GEnie: Stop by the Games Round-Table (type: Scorpia to reach the Games RT).

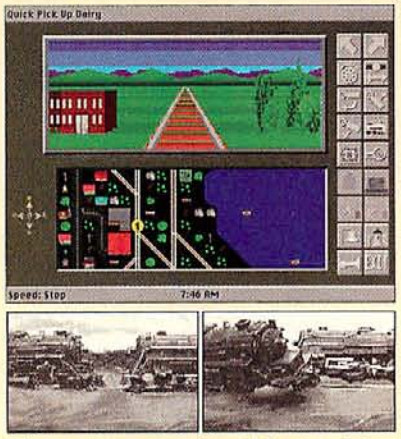
By US Mail (include a self-addressed, stamped envelope if you live in the United States): Scorpia, PO Box 338, Gracie Station, New York, NY 10028.

Until next time, happy adventuring!


Abracadata, the publisher of *Design Your Own Railroad*™ introduces . . .

TRAIN ENGINEER™

Ground-breaking Cab-view Simulation!




— Design Layouts —
— Add Scenery —
– Run Trains from the –
– Engineers' Viewpoint –

Put on your engineer's cap (grasp your computer mouse tightly) and get ready to drive down the tracks!

- Simulates operation of a powerful locomotive from the cab view.
- Includes animation sequences and REAL train sounds.
- View your layouts' colorful scenery from the engineer's viewpoint.
- User-controlled: weather conditions, pickup/delivery schedules, response to train collisions, and cargo.

The program you've all been asking for. Yes...it can use *Design Your Own Railroad*™ track layouts!

Includes dozens of elaborate railroad layouts!

Retail . . . . . **$49.95**

Available for Windows/DOS & Macintosh

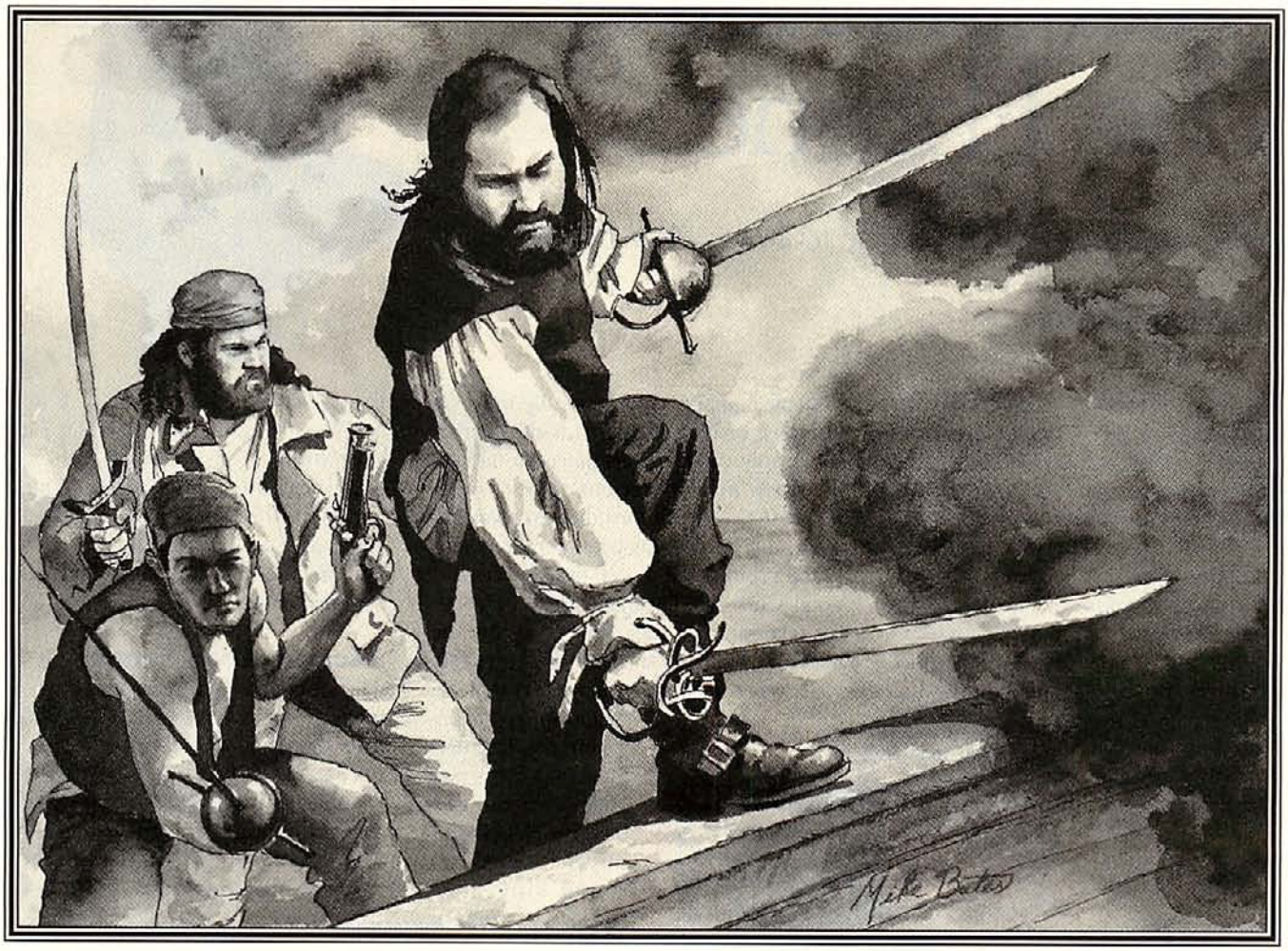
***To Order, Call . . .***

**Abracadata: 1-800-451-4871**

Abracadata™
*the source of plan-making software*
SINCE 1985
P.O. Box 2440
Eugene, OR 97402
(503) 342-3030

*Reader Service #159*

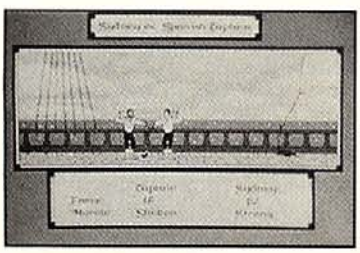
# Mac Owners, Your Ship Has Come In.



Let's face it. All this time you've spent staring holes into your monitor, you've really been yearning for swashbuckling adventure on the high seas. Well, shore leave is over. Sharpen your long-sword and climb aboard *Pirates!® Gold*, the award winning classic action/adventure game from MicroProse.

Pirates! GOLD

As a courageous privateer, you'll lead a crew of wild buccaneers into distant harbor towns.



Plunder valuable goods in bold attacks on enemy ships. Bombard enemy ships with hull-crushing cannonballs. And risk losing it all as you cross swords with scurvy rogues.

You'll sail the Spanish Main, a world created to take advantage of all the graphics and sound capabilities of your Macintosh.

*Pirates!® Gold* from MicroProse. The Golden Age of Buccaneering has arrived for the Macintosh!

To order your copy, call **1-800-879-PLAY** today!

Look for these additional MicroProse titles for your Macintosh: *Sid Meier's Civilization®* and *F-117A Stealth Fighter 2.0®*.

MICROPROSE®

A Division of Spectrum HoloByte®, Inc.

© 1994 MicroProse. ALL RIGHTS RESERVED.

# Necromancing The Throne



*MicroProse's Dragonsphere Marries Magic And Politics*

**by Allen L. Greenberg**

ONE OF THE MOST INTERESTING YET LEAST READ JOURNALS OF THE MODERN AGE IS *THE LEGAL NECROMANCER*, a review of satanic, demonic and other unspeakably horrible powers, and how they relate to modern law and politics. That this publication has remained largely unknown may be attributed, in part, to the various incantations which have rendered it invisible ever since its embarrassing right-wing editorials during Watergate. The main reason, however, for the journal's anonymity is its large number of contributing hell-spawn demons, who are reluctant to reveal that they are also practicing lawyers and politicians. It should be no secret to fantasy game players, however, that government leaders and sorcerers have often attempted to use each other to advance their mutual quests for power, and that this has almost invariably led to the death of either one or both parties. DRAGONSPHERE, an engaging adventure game from **MicroProse**, provides yet another example of explosive results when magic is carelessly mixed with political ambition.

**Dragonsphere**

**Price:** $69.95
**System:** IBM with CD-ROM
**Protection:** None
**Requirements:** 386-16 MHz or better, 2MB RAM, VGA graphics, 12MB hard drive space
**Publisher:** MicroProse
Hunt Valley, MD
(410) 771-0440




DRAGONSPHERE boasts an imaginative story in which you, as King Callash of the fairy tale realm of Callahach, are charged with freeing the land from the abuse of the evil wizard, Sanwe. Compared to a dragon throughout the game, our villain appears for one year out of every twenty. During that year, in the tradition of many politicians and evil mages, he murders, destroys, pillages and generally makes a nuisance of himself. When Sanwe makes his deadly cameo appearance, he arrives on Earth in a mysterious tower. Unbeknownst to our evil lord, however, an imprisoning bubble has been conjured into place around the tower by Ner-Tom, a good ("not morally-challenged" in political terminology) wizard working for the previous king. As the end of the twenty year cycle comes closer, it appears that the magic sphere is beginning to fracture, and that Sanwe is about to break free despite Ner-Tom's efforts. Thus, the young king must follow certain prophetic instructions in order to eliminate Sanwe more permanently.

While King Callash's task seems simple and straightforward at the game's beginning, you will soon realize that there is a lot more to DRAGONSPHERE than was originally presented. Sanwe may not realize it, but many in the king's castle have conspired to use the wizard's foul presence in order to increase their own share of power in Callahach. At the top of the list are the king's mother and wife, who discuss the hero's progress in hidden whispers even as they provide protective gifts to aid him. The king's brother, MacMorn, is far less secretive about his aspirations, and even goes so far as to plant his conniving *derriere* on the royal throne before the king so much as departs on his quest. Meanwhile, the royal wizard, Ner-Tom, has mysteriously disappeared from the castle for reasons which you will discover as the game progresses. A surprise revelation, midway through the game, complicates the plot even further. To complete the game, you must extricate yourself from the various snares which have been laid out by many different and devious plotters.

### RACES, COLORS, CREEDS

The kingdom of Callahach is home to several different races, and in order to penetrate the game's many mysteries, it will be necessary for you to earn the trust and friendship of each of these races. A race of Faeries, anxious to stay on good terms with the king, yet unable to resist the urge to tease him into frustration, possess a tremendous amount of knowledge. They will only give up their wisdom after an exhausting round of trivia and IQ questions. Elsewhere, a race of shapeshifters are forced to live in what can only be described as a fairy tale ghetto. For fear that these creatures might escape and steal the identities of others in the kingdom, humans permit no one to enter or leave this oppressed area of Callahach. Yet, it is with the shapeshifters you must negotiate in order to solve more than one mystery which arises on your quest.

A desert-dwelling race calls their land "Soptus Ecliptus," where their recreation-loving Caliph is the ruler. The Caliph does not appear to take his responsibilities as leader at all seriously, but his position does allow him to play games with anyone who enters the tent. This "Monty Hall of the Desert" will also reward winning players with valuable and useful prizes from his treasure bag, so it is certainly a good idea for you to "come on down." Problem is, the people of Soptus Ecliptus speak a different language than the rest of the

# VOCABULARY ENHANCEMENT

# POLITICAL CORRECTNESS

# SPIRITUAL AWARENESS

# BUTT-KICKING EXCITEMENT




# JumpRaven™



Grand Prize Winner: The Apple-Japan CD-ROM Award

*Chosen over IRON HELIX, HELL CAB, and MYST.*

"Downright outrageous."
*- Inside MacGames*

4½
*- MacHome Journal*



Welcome to the future. America's on close-out sale. Everything's going to hell on afterburners. The Skins and the Neos have stolen the last gene samples of Earth's wildlife. If you ever want to hear a bird go tweet again, you'll have to do something *fast.*

Fire up your hovercraft and blast through an incredibly realistic, grungy 3-D New York-of-the-future in a non-stop firefight.

Your hand-picked co-pilot is screaming with attitude. Your custom-chosen soundtrack is turning your brain to plasma.



The Weapons Lady has 24 different forms of destruction for your selection...if you can handle it.

All you've got to do is stay alive long enough to save the world...and make a few bucks while you're at it.

**FROM THE AWARD-WINNING CREATORS OF LUNICUS™**

*Inquiries please call*
*415-813-8040*

**AWARD-WINNING CD-ROM MACINTOSH ADVENTURE NOW AVAILABLE FOR WINDOWS**

Cyberflix

Paramount Interactive

Circle Reader Service #103




**WHENCE CAME I?** Your trusty AAA map of Callahach uses icons to take you anywhere in this richly defined fantasy world.

kingdom, requiring that you take a crash course in Soptus Ecliptish from the faeries or shapeshifters.

The last race to be found are the Shak. While they appear to be a collection of talking birds, they actually claim to be humans who somehow acquired the gift of flight. Unfortunately, they just happened to make their home on the same mountain on which Sanwe's foul tower appeared. The Shak are understandably bitter at having been trapped inside Ner-Tom's confining bubble, but nonetheless make an important contribution to the restoration of normalcy in the kingdom. Each race's village must be visited several times before the game is over, but there is no set order in which these visits need be accomplished.

### GHOST OF GAMES PAST

DRAGONSPHERE is presented using the same interface mechanics as those found in MicroProse's REX NEBULAR and RETURN OF THE PHANTOM: ten verbs alongside a scrolling list of inventory. By using the mouse to point to the verbs, objects in the inventory list, and whatever or whomever appears on the graphic screen, DRAGONSPHERE allows a healthy number of commands to be constructed. In addition, pointing to a specific object in the scrolling inventory list allows you to choose one or two commands that are specific to that item.

DRAGONSPHERE's story is tightly constructed so that the tedium of travel from one location to another is kept to a minimum. My only complaints arise towards the game's climax, when the number of objects in the hero's inventory grow somewhat unwieldy. At this point, it becomes necessary for you to switch from one object to another in rapid-fire succession. The keyboard remains useless, as it does throughout the game, which prevents




**WHAT SAYEST THOU?** Choose carefully, as you cannot simply scroll through all the choices for the one most favorable.



shortcut commands and more rapid access to the inventory. The mouse interface may be altered from standard to easy, while another option allows you to change the game's difficulty level, although the results of this change may not be immediately obvious.

As was the case with RETURN OF THE PHANTOM, DRAGONSPHERE features such eye-opening animation effects as can only be described as true-to-life. Characters walk, run or even shift position with such natural grace as should only seem possible with human muscle in action. The backgrounds are drawn in pleasing detail, and colors are muted so that the graphics are generally realistic. The compact disc features the digitized voices of each of the characters, although you must still read the game's extensive narration for yourself. Despite some amusing efforts to enhance the non-human voices with special effects, the game's vocal sounds, unlike the graphics, are somewhat hollow and lifeless.




**DARE YOU APPROACH?** Every action taken has a distinct effect on the outcome of the game.

DRAGONSPHERE is a moderately difficult exercise to complete, though some very experienced game players may find it too brief or simple. There is a lot of conversation in the game, and much of DRAGONSPHERE's challenge involves choosing the correct response to another character from a list of possible statements. The penalty for choosing a less than ideal response may be to delay certain events in the story, or to make certain tasks more difficult. In these cases, however, the overall flow of the story is not disrupted. These are not the type of conversations that may be repeated until all choices have been selected, so you only have one chance to select the proper response. There are several opportunities for the hero to die, but the program quickly resurrects him and allows you to continue the story from the moment prior to committing the fatal error.

In addition to its much appreciated lesson that mages and public servants should stay away from each other's line of work, DRAGONSPHERE features some interesting puzzles with a story worth following. In general, an enjoyable and satisfying piece of work.

*The tools MicroProse used to create Dragonsphere were recently sold to Sanctuary Woods. Though MicroProse is apparently finished with adventure games for the time being, hopefully Santuary Woods will put this now-mature game system to good use. -Ed*

## DRAGONSPHERE

★★★★

**PROS** Rich fantasy cultures, solid graphics, non-repetitive conversations, seminal story

**CONS** Mediocre voice performances, sometimes hollow sound effects





**The only thing it doesn't simulate is ear popping.**

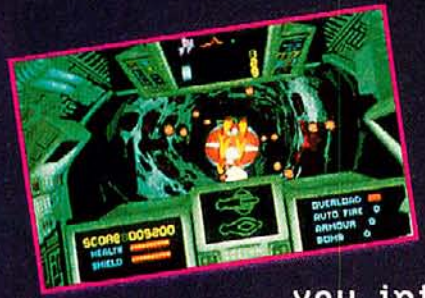
If it were any more real, your chair would be in a 30° bank. Our new Microsoft® Flight Simulator™ has four planes, each with its own instrument panel created digitally from actual photographs. There are storm clouds and sunsets to fly into. Crashes are scarily real. And you can fly to airports anywhere in the world. It's just one of the realistic simulations we have waiting for you to take control. Everything is at your reseller. So, take off.

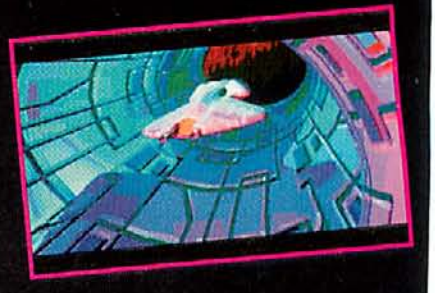



Microsoft Home

© 1994 Microsoft Corp. All rights reserved. Microsoft is a registered trademark of Microsoft Corp. Flight Simulator is a trademark of Bruce A. Artwick.

# Holy Sphin



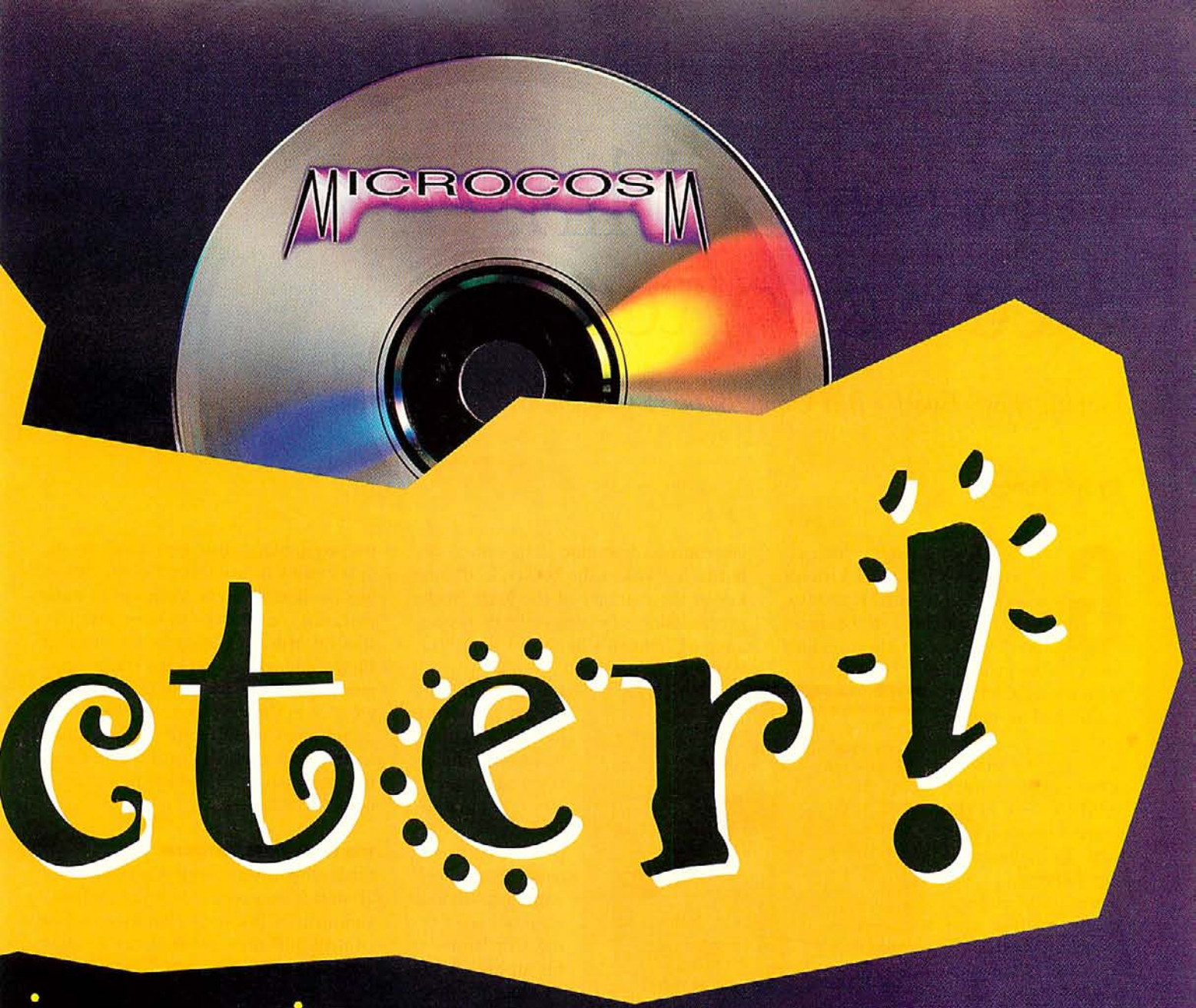



Hang on. Tight.

You're about to enter the dark and foreboding world of Microcosm. Super-realistic, computer generated graphics inject you into the body of Cybertech's president, Tiron Korsby. Your mission: to find and eliminate a deadly and elusive brain manipulation droid.

Experience a whole new realm of adventure gaming as CD ROM-based interactive cinema effects transport you inside the heart-stopping action.






# ctr!




Available for Sega CD, PC CD ROM, and 3DO at your local retailer.

Over 500 megabytes of brilliant SGI graphics and an original sound track by Rick Wakeman, formerly of YES, crank up the intensity to levels you've never before encountered.

Step into the latest high-tech micro-submersibles and pilot your way to the edge of your imagination. But don't forget to pack an extra pair of shorts.





Psygnosis
675 Massachusetts Avenue
Cambridge, MA 02139
(617) 497-7794

Circle Reader Service #193

# Blount Goblin, Ace Reporter



*Goblins Lose Two I's But Come Back To Get The Story*

**by Jeff James**

GOBLINS QUEST 3 (GQ3), THE LATEST ITERATION IN **Coktel Vision's** LINE OF LIGHT-HEARTED PUZZLE/ADventures, continues in the three-toed footsteps of the previous two Goblins games, but takes a few tiny steps toward the more traditional adventure game.

**GoblinsQuest 3**

**Price:** $29.95
**Systems:** IBM, IBM CD-ROM
**Requirements:** 386 or better, 2MB RAM, VGA graphics, 9MB hard drive space; supports AdLib, Sound Blaster, and Pro Audio sound cards.
**Protection:** None
**Developer:** Coktel Vision
**Publisher:** Sierra On-Line
Bellevue, WA
(800) 757-7707




In the first Goblins game (*Gobliiins*), three goblins were at the player's disposal, each with a unique set of capabilities, and they were used cooperatively to overcome many obstacles. In GOBLIINS 2, only two goblins, Fingus and Winkle, were available. Fingus was polite and mannerly, achieving his goals with tact and diplomacy, while Winkle operated with trickery, deception and a swift bash to the skullcap. In GQ3, only intrepid adventurer/reporter Blount begins the quest. Although he does need assistance from a variety of characters in order to emerge victorious, he is undoubtedly the star of the show.

### TO PUT IT BLOUNTLY...

Situated between the rival kingdoms of Queen Xina and King Bodd, the maze under Mount Foliandre has been the source of conflict and vicious squabbling between the two kingdoms for centuries. Whichever kingdom can successfully send a representative through the maze will win untold riches and other rewards. Unfortunately, the guardian of the labyrinth—a fearsome chap named Behorn—has kicked the bucket, losing the key to the entrance of the maze in the process. More alarming is the disappearance of Behorn's beautiful daughter, Wynonna. Thrust into this maelstrom of rapidly unfolding events is Blount, journalist extraordinaire for the esteemed *Goblins News*. A curious, tenacious reporter—far from a cowardly "yellow" journalist—Blount leaps aboard a flying ship and sets his sights on unraveling the mystery of Mount Foliandre. Your task is to guide the intrepid Blount through a series of puzzles to rescue the princess and uncover the mysteries of the catacombs.

Although Blount is the primary character in the game, several other creatures will drop by to give him a hand. The first is Chump the Parrot, seen in the first area aboard the flying ship. Ooya the Sage and Fulbert the Boa Constrictor make cameo appearances later. Unlike Blount, most of these secondary characters cannot pick up objects, but they can manipulate the environment (by pulling ropes, distracting goblin guards, etc.). You'll get the opportunity to use other Goblin characters (such as Princess Wynnona) in some instances, and they behave just like Blount. Most of the game screens that Blount and friends must traverse are covered in obstacles and objects. In order to advance to the next level, an object must be retrieved or an escape route must be found. Most levels will usually have a leering guardian or two which Blount must outwit in order to pass.

### NO HOBBLIN' GOBLIN

Ordering Blount and his colleagues around is an exercise in point and click simplicity. Click on a character to take control and then point at the location you want him/her to travel to, an object to be retrieved, or a character with whom to banter. Blount and his compatriots are usually rather adept walkers,



**GOBLIN NEWS TRAVEL SERVICE** You control the destination of Blount, Ace goblin reporter, as he travels in his flying boat to the habitats of several cute characters, in this easy-to-use interface screen.



**WORKING ALL THE LIVE LONG DAY** Creatures you meet on your journey carry on in ways that Saturday morning cartoon characters might envy.

able to intelligently pick their way through on-screen obstacles to reach their destination. Directing more than one character at a time is sometimes required, so precise timing is often essential. For example, Chump the Parrot must pull on a rope so Blount can snatch an umbrella hanging from the other end. For additional control options, an icon-covered tool bar resides at the top of the screen, not unlike the one found in more conventional Sierra adventures. These icons allow access to game options, "jokers" (game hints), inventory, the latest issue of the *Goblins News*, a game map and a miscellaneous options menu. The jokers are designed to help you out of a jam, and selecting one will provide a complete walkthrough for the current level. Although only five jokers are available, savvy gamers can save their game position before using the hint, then reload their saved game to generate an endless supply of game hints. If you're less willing to "cheat," perusing the *Goblins News* section will give you a brief rundown of the current dilemma facing Blount.

Unlike previous installments in the Goblins series, GQ3 features a large dose of plot twists, unexpected obstacles, and other story elements like those found in a conventional adventure game. Within the first few scenes of the game, Blount is attacked by a werewolf and afflicted with lycanthropy. Several episodes later, Blount's ability to turn into a hairy, smelly, slavering werewolf allows him to pass otherwise insurmountable obstacles.

Most of the puzzles can be overcome with a healthy dose of trial and error, although some leave common sense babbling and drooling in a corner. The jokers can be a lifesaver, but they let the cat out of the bag with one great leap. Puzzles that at least gave a nod to conventional logic, or, better yet, a help system that provided an increasingly more specific series of hints would have been preferable.

What GQ3 shares most with its predecessors is a healthy sense of humor, with innumerable sights, sounds and animation to amuse and entertain. In one animation, Blount tugs on a rope only to be whisked upwards, followed by the resounding clang of a large bell. Blount drops into view in monkish garb, hanging onto the rope as if ringing the morning bell at a monastery. He zips upwards once more, then returns as the original Blount. Such slapsticky bits pervade the game, and more than once I found myself laughing out loud.




**WHO NEEDS A SAND TRAP?** You'll have to work on both your short irons and mental game to get through this puzzle.

### THE REST OF THE STORY

GQ3 is the most visually impressive in the Goblin series to date, with bright, expressive 256-color VGA graphics in almost all scenes and segues. As in earlier Goblins games, each character is imbued with a unique set of mannerisms and characteristics. Blount occasionally scribbles on his notepad, taps his foot or scratches his armpits while waiting for the player to perform an action; Chump flaps awkwardly in the air for a few moments and then lands soundly on his noggin. There's a silly, good-natured air around all of the characters in the game. The CD version is exceptionally colorful, with loads of cartoon animation and animated cut scenes which segue into nearly every level. For example, after vanquishing the puzzles of the first level and jumping off the flying ship in a bucket, Blount plunges from a great height and impacts the ground with a tiny puff of smoke (and a hat tip to Wily E. Coyote). Blount also offers spoken hints, thoughts, and suggestions to you during play, spoken with a voice that fits the animated character to a 'T'.

At its heart, GOBLINS QUEST 3 is a light adventure of grand comic proportions. It would make the perfect game for the adventuring initiate, although novices should be aware that some of the puzzles are wacky to the point of being unsolvable without assistance. Still, the hints are there (and though they're often too tempting, they're better than a 900 hint line), and gamers can choose to use or lose them depending on their skill level and taste. But no matter what your experience is with puzzle games, it's the charming characters and goofy plot elements that will keep you hacking away at the puzzles to get the next scoop. Blount Goblin, Ace Reporter, will be proud.



**ALL TUCKERED OUT?** Even a goblin would welcome a chance to catch his breath during some of the colorful segue sequences.

**GOBLINS QUEST 3**

★★★ 1/2

**PROS** Excellent animation, wacky puzzles, nice tongue-in-cheek story, great value for casual gamer

**CONS** Obscure puzzle solutions, lacks cooperative puzzles

# CHIPS&BITS

Call 800-699-4263 Fax 802-767-3382
Int'l 802-767-3033 Source 10073
PO Box 234 Dept 10073 Rochester, VT 05767

## IBM HARDWARE

| | |
|---|---|
| Acoustic Resrch P 22 | $72 |
| Acoustic Resrch P 42 | $159 |
| Acoustic Resrch P570 | $319 |
| Acoustic Resrch P622 | $239 |
| AdLib Sound Card | $34 |
| Advancd Gravis Ultrsd | $129 |
| Altec ACS 100 Speakrs | $69 |
| Altec ACS 150 Subwfr | $109 |
| Altec ACS 200 Speakrs | $209 |
| Altec ACS 3 Spkr Sys | $169 |
| Altec ACS 300 Sp wSb | $249 |
| Altec ACS 50 Speakers | $79 |
| Auto Cockpit | $169 |
| CH Weap Control Sys | $69 |
| Cyberman | $79 |
| Fighter Stick | $79 |
| Flight Cockpit | $219 |
| Flight Control Stand | $18 |
| Flight Stick | $35 |
| Flight Stick Pro | $57 |
| Game Card 3 Automatic | $25 |
| Gravis Analog Joystick | $29 |
| Gravis Anolog Pro Jystk | $34 |
| Gravis PC Game Pad | $19 |
| Jet Stick | $24 |
| Labtec CS-1000 Spkers | $75 |
| Labtec CS-1200 Spkers | $84 |
| Labtec CS-1400 Spkers | $99 |
| Labtec CS-150 Spkers | $14 |
| Labtec CS-550 Spkers | $24 |
| Labtec CS-700 Spkers | $32 |
| Labtec CS-800 Spkers | $30 |
| Labtec CS-900 Spkers | $69 |
| MV 2000 Family Dlx | $315 |
| MV 3000 Super Dlx | $389 |
| MV 400 Prm Prt CD Drv | $240 |
| MV 4000 Premium Dlx | $489 |
| MV 5000 Pro Deluxe | $689 |
| Mach 3 Joystick | $27 |
| Maxx Cobra Flightstick | $59 |
| Maxx Control Yoke | $54 |
| Maxx Ruddr Pedals FLT | $38 |
| Mdia Concpt Sblstr Clon | $39 |
| NEC3XE MS ExCD Dr | $599 |
| NEC3XI MSn InCD Drv | $499 |
| Notebook Gameport | $42 |
| PC Symphny Adlib Cmpt | $29 |
| Pilot Control Stand | $19 |
| Pro Audio Spectrum 16 | $139 |
| Pro Audio Spect 16 Bas | $104 |
| Pro Audio Spectrum Plus | $89 |
| Pro Audio Studio 16 | $169 |
| Reel Magc CDROM Up | $599 |
| Reel Magic Vid Upgd | $385 |
| Sony SRS9 Speakers | $14 |
| Sound Blaster 16 ASP | $214 |
| Sound Blastr 16 Basic | $119 |
| Sound Blaster 16 MCD | $179 |
| Sound Blaster Deluxe | $79 |
| SBlastr Discovr CD 16 | $315 |
| SBlastr Gmblstr CD 16 | $399 |
| SBlastr Omni CD Drive | $220 |
| SBlaster Powrd Spkers | $25 |
| Sound Blaster Pro Dlx | $89 |
| SBlastr Vid Spigot WIN | $199 |
| S Blaster Voice Assist | $42 |
| Sound Galaxy BX2 | $49 |
| Sound Galaxy NX2 | $59 |
| Sound Galaxy NXPRO | $109 |
| SGlxy NXPRO16 MMD | $299 |
| SGalaxy NXPRO 16 | $139 |
| SGlxy NXPRO MM Kit | $249 |
| Sound Machine | $94 |
| Sound Machine Pro 16 | $139 |
| Sound Man Wave | $195 |
| Sound Star Snd Enhncr | $9 |

## IBM HARDWARE

| | |
|---|---|
| SoundMan 16 | $99 |
| Thrustmstr Driving Sys | $114 |
| Thrustmaster FCS Pro | $99 |
| Thrstm FCS Pro UProm | $14 |
| Thrustmaster FLC Sys | $125 |
| Thrustmaster Flight Sys | $59 |
| Thrustmastr Game Card | $26 |
| Thrustmstr Rudder Sys | $99 |
| Thrustmstr WCS Mark 2 | $94 |
| Thrustm WCS2 UPROM | $14 |
| Universal Cockpit | $219 |
| Video Blaster | $299 |
| Virtual Pilot | $65 |
| Voice Blaster | $39 |

## IBM ADVENTURE

| | |
|---|---|
| 007 James Bond Stlh Aff | $12 |
| 7th Guest CD | $48 |
| 7th Guest 2:11th Hr CD | $54 |
| Advent Will Beam VGA | $24 |
| Advent Will Beamish CD | $24 |
| Alien Legacy | $42 |
| Alone in the Dark | $34 |
| Alone in the Dark CD | $48 |
| Alone in the Dark 2 | $34 |
| Alone in the Dark 2 CD | $48 |
| Altered Destiny | $29 |
| Amazon | $9 |
| Animation Classics | $39 |
| B.A.T. | $6 |
| Beneath a Steel Sky CD | $39 |
| Beverly Hillbillies | $19 |
| Bioforge | $48 |
| Bioforge CD | $52 |
| Blake Stone | $42 |
| Blake Stone Episode 1 | $9 |
| Bloodnet | $39 |
| Bloodnet CD | $43 |
| Blue Force: Next of Kin | $42 |
| Blue Force: Next Kin CD | $39 |
| Blues Brothers | $25 |
| Buccaneers CD | $48 |
| Castle Wolfenstein CD | $42 |
| Castle Wolfstn-Spr Dest | $29 |
| Chaos Continuum CD | $44 |
| City 2000 CD | $34 |
| Companions of Xanth | $32 |
| Compans of Xanth CD | $36 |
| Conan CD | $26 |
| Conqust Robin Hd VGA | $24 |
| Conquests of Camelot | $15 |
| Conspiracy CD | $39 |
| Corridor 7 | $36 |
| Covert Action | $6 |
| *Crime Does Not Pay | $12 |
| Critical Path WIN CD | $48 |
| Cruise for a Corpse | $19 |
| Curse of Enchantia CD | $23 |
| *Dark Half | $9 |
| Dark Seed | $36 |
| Dark Seed CD | $39 |
| Day of the Tentacle | $35 |
| Day of the Tentacle CD | $42 |
| Death Gate CD | $35 |
| Deja Vu 1&2 WIN | $34 |
| Don't Go Alone | $6 |
| Doom | $45 |
| Doom CD | $48 |
| Doom Episode 1 | $12 |
| Dracula | $34 |
| Dracula CD | $35 |
| Dracula Unleashed CD | $47 |
| Dragon Knight 3 | $46 |
| Dragon Knight 3 CD | $48 |




**'SINK OR SWIM'** You play the hero, Rork Storm, who has the unenviable job of rescuing the dim-witted passengers of the S.S. Lucifer. You must weave your way through 60 puzzles included in the game. Offers compelling graphics, music and sound effects, 5-7 puzzles per level, and password code features. **$19**



**'THRUSTMASTER F-16 FLCS'** A versatile stick with virtually unlimited programmability. It looks and feels like it was ripped out of the jet. The ultimate edge for any flight sims. Offers a grip modeled after the F-16 Fighting Falcon, four 8-way hat switches, a dual stage trigger and 3 strategically placed buttons. **$125**



**'SYSTEM SHOCK'** You receive a neural implant that allows you to enter cyberspace. Upon awakening, you discover that a super-intelligent computer has seized control of the station and is planning to release a deadly virus. **$48**




**'BENEATH A STEEL SKY'** Jack into the world's first computer-based animated comic book adventure and enter a future where Earth as we know it is on the verge of Ecological Sunset. Features cutting edge virtual theatre environment, over 100 different locations, and futuristic sound effects. **CD $39**

## IBM ADVENTURE

| | |
|---|---|
| Dragon's Lair 2 Tm Wrp | $34 |
| Dragonsphere CD | $48 |
| Dreamweb | $36 |
| Dune CD | $49 |
| Earth Invasion WIN | $24 |
| Earthrise | $9 |
| El Grito Dl Jagr CD WIN | $46 |
| Ell | $24 |
| Epic | $32 |
| Eric the Unready | $24 |
| Eric The Unready CD | $35 |
| Escape Dead Zone CD | $48 |
| Evolution | $39 |
| Evolution CD | $39 |
| Fascination CD | $39 |
| Flashback | $32 |
| Fourplay WIN | $19 |
| Fred Phrks Frontr Phrm | $24 |
| Fred P. Frontr Phrmct 2 | $44 |
| Free DC | $9 |
| Freelancer 2120 | $42 |
| Freelancer 2120 CD | $42 |
| G-force | $19 |
| Gabriel Knight | $39 |
| Gabriel Knight CD | $45 |
| Gamma Force | $6 |
| Gateway | $13 |
| Gateway 2 CD | $32 |
| Gateway 2:Homeworld | $32 |
| Gateway Collct 1&2 CD | $36 |
| Gobliiins CD | $19 |
| Gobliiins 2 CD | $19 |
| Goblins 3 CD | $19 |
| Guy Spy CD | $29 |
| Hand of Fate | $29 |
| Hand of Fate CD | $39 |

## IBM ADVENTURE

| | |
|---|---|
| Harvester CD | $46 |
| Heart of China EGA | $34 |
| Heart of China VGA | $19 |
| Heaven and Earth | $32 |
| Heimdall | $17 |
| Hell Cab CD | $49 |
| Hired Guns | $36 |
| Hook | $32 |
| Horde | $42 |
| Horde CD | $49 |
| In Extremus | $42 |
| Inca | $19 |
| Inca CD | $19 |
| Inca 2 | $34 |
| Inca 2 CD | $19 |
| Indy Jones 4 Ft Atlantis | $29 |
| Indy Jones Ft Atlntis CD | $42 |
| Inherit the Earth | $45 |
| Inherit the Earth CD | $45 |
| Innocent Until Caught | $34 |
| Inspector Gadget | $34 |
| Iron Helix CD | $56 |
| Isle of the Dead | $34 |
| Jack the Ripper | $39 |
| Jagged Alliance | $48 |
| Jonny Quest | $26 |
| Journeyman Project CD | $46 |
| Journeyman Projct 2 CD | $52 |
| Jurassic Park | $39 |
| KGB | $17 |
| King's Quest 5 VGA | $32 |
| King's Quest 5 WIN CD | $41 |
| King's Quest 6 CD | $39 |
| King's Quest 6 Upgd CD | $24 |
| King's Quest 6 VGA | $45 |
| King's Quest Anthlgy CD | $49 |

## IBM ADVENTURE

| | |
|---|---|
| King's Ransom | $36 |
| King's Ransom CD | $38 |
| Kronolog : Nazi Paradox | $36 |
| L.A. Law | $9 |
| Labyrinth of Time CD | $48 |
| Lands of Lore 2 | $42 |
| Lands of Lore 2 CD | $46 |
| Laura Bow 2 | $24 |
| Laura Bow 2 CD | $24 |
| Leather Goddesses 2 | $39 |
| Legend of Kyrandia | $32 |
| Legend of Kyrandia CD | $32 |
| Leisure Suit Larry 1 EGA | $16 |
| Leisure Suit Larry 1 VGA | $19 |
| Leisure Suit Larry 5 | $34 |
| Leisure Suit Larry 5 VGA | $24 |
| Leisure Suit Larry 6 | $42 |
| Leisure Suit Larry 6 CD | $39 |
| Loom | $19 |
| Loom CD | $39 |
| Lost Files Sherlck Holms | $26 |
| Lost Treasrs of Infocom | $32 |
| Lost in Time | $19 |
| Lost in Time CD | $19 |
| Lunicus CD | $42 |
| Magic Death CD | $26 |
| Magic Pockets | $18 |
| Man Enough CD | $39 |
| Manhole | $24 |
| Maniac Mansion | $18 |
| Mario is Missing CD | $44 |
| Martian Memorandum | $24 |
| Mixd Up Faery Tale EGA | $14 |
| Mixd Up Faery Tale VGA | $29 |
| Mixed-Up Mother Goose | $29 |
| Morph Man CD | $29 |

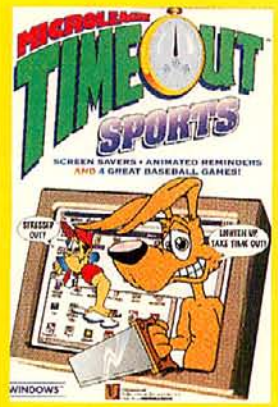
## IBM ADVENTURE

| | |
|---|---|
| Myst CD | $48 |
| No Mouth & I Must Scrm | $44 |
| No Mth & I Mst Scrm CD | $44 |
| Noctropolis | $48 |
| Noctropolis CD | $52 |
| Nomad | $35 |
| Out of this World | $19 |
| Out of this World 2 CD | $45 |
| Peppr Adv in Time VGA | $29 |
| Phantasmagoria CD | $59 |
| Police Quest 1 VGA | $19 |
| Police Quest 3 VGA | $24 |
| Police Qust 4 DOS/WIN | $39 |
| Police Quest 4 CD | $39 |
| Prince of Persia | $25 |
| Prince of Persia 2 | $42 |
| Quantum Gate WIN CD | $45 |
| Quest for Glory 1 | $18 |
| Quest fr Glry 1 VGA CD | $39 |
| Quest for Glory 3 | $24 |
| Quest for Glory 4 | $39 |
| Quest for Glory 4 CD | $39 |
| Red Shift WIN CD | $47 |
| Return of the Phantom | $34 |
| Return of Phantom CD | $38 |
| Return to Zork | $44 |
| Return to Zork CD | $44 |
| Riftwar Legacy VGA | $39 |
| Ringworld | $35 |
| Ringworld CD | $38 |
| Robinson's Requiem | $42 |
| Robinson's Requiem CD | $42 |
| Robocop 3 | $32 |
| S D I | $6 |
| Sam & Max Hit Road | $34 |
| Sam & Max Hit Rd CD | $42 |

Visa/MC Accepted. Checks Held 4 Weeks. Money Orders same as cash. COD $8. Defectives replaced with same product. Most items shipped same day. Shipping times may vary. Price/availability may change. All sales final. Call for details.

**OVERNIGHT SHIPPING** in US $4 per order. Mail to Canada, PR, HI, AK, APO, FPO $4 per order. 4-8 day Worldwide shipping $6 per item. Handling $2 per shipment.

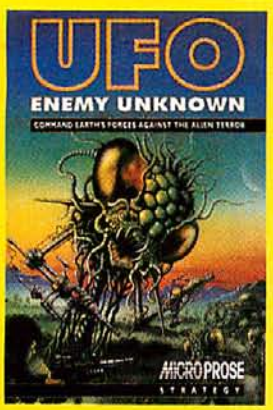
# FREE GAME OFFER*




**'MICROLEAGUE TIME OUT SPORTS BASEBALL'** is a combination of utilities and games meant to turn your work station into a stress-relieving retreat. Offers stress-busting software with a sense of humor, Bernie and his dog Jock, 5 games designed to be quick, fun and easy, and screen grabbers and savers. **$25**




**'INTERACTIVE ENTERTAINMENT'** the world's first CD MAG, is an episode of interactive television for your CD Rom. Devoted to entertainment software, IE features full-motion reviews, talking previews, multimedia hints and tips, and interactive video interviews with key figures in the gaming industry. **CD $9**




**'UFO: ENEMY UNKNOWN'** You control XCom; formed by the world's governments to fight the alien menace. Once you've shot them down you use soldiers to investigate the crash site. Make all the crucial decisions, complete ground missions, and tackle the aliens with automatic rifles and rocket launchers. **CD $48**

## *FREE GAME OFFER

Spend the specified amount on any in stock IBM software and choose a free IBM game from the corresponding list below. Offer subject to change or cancellation without notice. Valid from June 1st through July 31st or while supplies last.

### SPEND $60 GET

Playmaker Football Combo, Cardinal of Kremlin 3.5, Darkhalf 3.5, Trump Castle 2 Data Disk 1 or 2 3.5 or 5.25, Gunship 5.25, Pirates 5.25, Star Legions 5.25, Magic Candle 2 5.25, MacArthurs War 5.25, Crime Does Not Pay 5.25, Warlords 5.25, X-Men 5.25

### SPEND $100 GET

Airborne Ranger 5.25, Tegel's Mercenaries 5.25, Command HQ 5.25, F15 SE 2 5.25, M1 Tank Platoon 3.5, Megatraveller Zhodani 5.25, Red Storm Rising 3.5, Battles of Destiny 3.5

## IBM ADVENTURE

| | |
|---|---|
| Screen Antics WIN | $19 |
| Secret Monky Islnd VGA | $23 |
| Secret Monky Islnd CD | $39 |
| Secret Monkey Island 2 | $21 |
| Secret of 7th Labyrinth | $42 |
| Shadow Caster | $34 |
| Shadow of Comet CD | $47 |
| Simon the Sorcerer | $32 |
| Space Quest 1 VGA | $16 |
| Space Quest 4 CD | $37 |
| Space Quest 4 VGA | $28 |
| Space Quest 5 VGA | $36 |
| Space Qust Anthlgy CD | $45 |
| Spawn | $44 |
| Spellcasting 101 | $19 |
| Spirit of Excalibur CD | $22 |
| Star Reach | $34 |
| Star Trek 25th Annivrs | $26 |
| Star Trek 25 Annivrs CD | $54 |
| Star Trk: Judgment Rites | $33 |
| Star Trk: Star Fleet Acad | $36 |
| Star Trk: Str Flt Acad CD | $52 |
| Starship | $29 |
| Stellar 7 CD | $24 |
| Suprhro Legu of Hobokn | $34 |
| Suprhro Lg Hobokn CD | $34 |
| System Shock | $48 |
| System Shock CD | $52 |
| Teenage Mut Ninja Turtls | $9 |
| Terminator 2029 | $29 |
| Terminator 2029 Op Scr | $19 |
| Terminator Rampage | $42 |
| Terminatr Rampage CD | $45 |
| Terror of the Deep | $36 |
| Terror of the Deep CD | $36 |
| The Dig | $40 |

## IBM ADVENTURE

| | |
|---|---|
| The Prophecy | $19 |
| Treasure Huntrs, Inc CD | $48 |
| Tuneland CD | $36 |
| UFO: Enemy Unknw CD | $48 |
| Ultimate Domain | $39 |
| Ultimate Domain CD | $44 |
| Under a Killing Moon CD | $55 |
| Uninvited | $6 |
| Voyeur CD | $48 |
| Walker | $32 |
| Warriors of Legend | $18 |
| Where in Spac Crmn Dlx | $39 |
| Where in Time Carmen | $29 |
| Where in USA Crmn Dlx | $45 |
| Where in USA is Crmen | $29 |
| Where in World Carmen | $29 |
| Where in Wrld Crmn Dlx | $44 |
| Where in World Dlx CD | $54 |
| Who Killd Sam Ruprt CD | $24 |
| Wing Commd Ultm 6 CD | $24 |
| Wing Commd UUW CD | $55 |
| Wrath of Gods CD WIN | $44 |
| Yserbius | $26 |
| Zombie Dino CD | $48 |

## IBM ARCADE

| | |
|---|---|
| 500 CC Race Bike | $29 |
| Alien Breed | $19 |
| Aliens Ate My Babysitter | $27 |
| Artura | $4 |
| Crazy Cars | $25 |
| Creepers | $34 |
| Dr Doom's Revenge | $9 |
| Dragon's Lair 3 | $34 |

## IBM ARCADE

| | |
|---|---|
| Dragon's Lair CD | $34 |
| Dragon's L Esc Sng Cst | $34 |
| E- Motion | $6 |
| Eight Ball Deluxe | $38 |
| Fast Action Paq | $24 |
| Finale | $3 |
| Fire & Forget | $24 |
| Gobliiins VGA | $16 |
| Gobliiins 3 | $19 |
| Gold of the Aztecs | $12 |
| Guy Spy | $24 |
| Highway Patrol 2 | $29 |
| Incredible Mach 2 WIN | $29 |
| Incredible Toons | $29 |
| Innocent | $38 |
| Jurassic Park CD | $44 |
| Kye Deluxe WIN | $33 |
| Mad Dog Mcree CD | $35 |
| Mad Dog Macree 2 CD | $39 |
| Metal & Lace | $29 |
| Metal & Lace Upgrade | $5 |
| Microcosm CD | $49 |
| Microsoft Arcade WIN | $29 |
| Mirage Thunder | $39 |
| Mortal Kombat | $36 |
| Ms PacMan | $6 |
| Never Mind | $9 |
| Obliterator | $6 |
| Pac Man | $9 |
| Pick'n Pile | $6 |
| Pinball Fantasies | $29 |
| Predator 2 | $9 |
| Prehistorik | $29 |
| Punisher | $12 |
| Raiden | $32 |
| Rebel Assault CD | $44 |

## IBM ARCADE

| | |
|---|---|
| Rise of the Robots | $45 |
| Rotox | $9 |
| S.C. Out | $12 |
| Silverball | $29 |
| Space Ace | $32 |
| Space Ace 2 | $34 |
| Street Fighter 2 | $34 |
| Super Cauldron | $25 |
| T2:Arcade Game | $29 |
| Take-A-Brk Pinball WIN | $19 |
| Taking of Beverly Hills | $6 |
| Teenage MNT ManMiss | $12 |
| Teenage Mut Ninja Turtl | $12 |
| Tetris Gold CD | $32 |
| The Tinies | $12 |
| Titan | $29 |
| Titus Fox | $25 |
| Tristan Pinball | $19 |
| Vaxine | $12 |
| Who Shot John Rck CD | $36 |
| Wild Streets | $24 |
| Winball WIN | $28 |
| Wrath of the Demon | $12 |
| Xiphos | $9 |
| Zool | $34 |

## IBM BUNDLES

| | |
|---|---|
| Air Combat Classics | $39 |
| Their Finest Hour | |
| Battle Hawks | |
| Secret Weap of Luftwaff | |
| Allied Forces | $9 |
| M1 Tank Platoon, Gunship | |
| Award Bundle | $44 |

## IBM BUNDLES

| | |
|---|---|
| Kings Quest 5, Red Baron, Rise of the Dragon | |
| Combat Classics | $19 |
| F15 Strike Eagle | |
| 688 Attack Sub | |
| Team Yankee | |
| Dynamix Bundle 1 | $24 |
| A-10 Tank Killer 1.5 | |
| Heart of China | |
| Stellar 7 | |
| Eye of Beholder Collctn | $52 |
| Eye of Beholdr Trilgy CD | $51 |
| Falcon 3 wThrstmst FCS | $99 |
| Gateway Collectn 1 & 2 | $36 |
| Land Sea Air 2 | $19 |
| Command HQ | |
| Red Storm Rising | |
| F15 Strike Eagle | |
| Lost Treasurs Infocom | $39 |
| Infidel, Lurking Horror, Deadline, Witness, Suspect, Ballyhoo, HitchHiker's Guide/Galaxy, Suspended, StarCross, MoonMist, PlanetFall, StationFall, Enchanter, Sorcerer, SpellBreaker, Zork 1-3, Beyond Zork, Zork Zero | |
| Lost Treasurs Infocm CD | $39 |
| Lost Treasurs Infocom 2 | $29 |
| Border Zone, Plundered Hearts, Bureaucracy, Cutthroats, A Mind For Voyaging, Hollywood Hi Jinx, Seastalker, Sherlock Holmes: Riddle of Crown Jewels, Wishbringer, Nord and Bert , Trinity | |
| Lost Treasrs Infcm 2 CD | $29 |
| Lucas Classic Advent | $36 |
| Indiana Jones, Secret Monkey Island 1, Maniac Mansion | |
| Magnetic Scrolls Bundle | $16 |
| Fish, Corruption, Guild of Thieves | |
| Marvel Trilogy | $12 |
| Max Pac | $16 |
| Star Control, Hoverforce, Test Drive 3 | |
| Maximum Overkill wDisk | $45 |
| Megafortress Mega-Pak | $38 |
| Megafortress | |
| Megafortress Mis Disk 1 | |
| Megafortress 3-D Editor | |
| Perfect General Trilogy | $36 |
| Perfect General | |
| Greatest Battles of 20th C | |
| WW2 Battles | |
| Power Hits: Battletech | $32 |
| Battletech 1, Battletech 2, Mech Warrior | |
| Power Hits: Movies | $17 |
| Rocketeer, Hare Raising Havoc, Die Hard, Ghostbusters2 | |
| Power Hits: Sci Fi | $19 |
| Prophecy, Tongue of Fatman, Circuit's Edge, Mines of Titan, Death Track | |
| Power Hits: Sports | $19 |
| Face Off, Pro Tennis Tour, MotoCross, Powerdrift | |
| Secret Weap Luftwff CD | $39 |

## IBM BUNDLES

| | |
|---|---|
| DO 335 Pfeil | |
| P-80 Shooting Star | |
| P-38 Lighting | |
| HE 162 Volksjager | |
| Space Quest Bndle 1-4 | $42 |
| Spellcasting Bundle | $34 |
| Spellcasting 101, 201,301 | |
| Spellcasting Bundle CD | $32 |
| Task Frc 1942 wRSR CD | $35 |
| The Victory Pack | $34 |
| Turning Point | $29 |
| Gettysburg, Spanish Armada, Waterloo | |
| Ultima Bundle 1-6 CD | $59 |
| Ultima Trilogy | $39 |
| Ultima 1-3 | |
| Ultima Trilogy 2 | $48 |
| Ulrima 4-6 | |
| Wing Commander 1 Dlx | $48 |
| Wing Commander Secret Missions 1 & 2 | |
| Wing Commndr 1 Dlx CD | $29 |
| Wizardry Trilogy | $32 |
| Wizardry 1-3 | |
| Wizardry Trilogy 2 | $33 |
| Wizardry 4-6 | |

## IBM ROLE PLAYING

| | |
|---|---|
| All Character Editors | $16 |
| ADD Collectors Edition 3 | $19 |
| Access Super Bundle | $34 |
| Al-Qadim:Genie's Curse | $45 |
| Al-Qadim CD | $49 |
| Amberstar | $19 |
| Arborea Journy Inr Snct | $34 |
| Arena: Elder Scrolls | $44 |
| Bard's Tale Construction | $29 |
| Black Crypt | $32 |
| Bloodstone | $27 |
| Captain Blood | $9 |
| Celtic Legends | $32 |
| Challenge of 5 Realms | $39 |
| Champions | $37 |
| Champions of Krynn | $12 |
| Cobra Mission | $34 |
| Corporation | $9 |
| Curse of Azure Bonds | $15 |
| Cyber Empire | $16 |
| Cyber Space | $39 |
| Cyber Space CD | $38 |
| Daemonsgate | $32 |
| Daemonsgate CD | $32 |
| Dark Queen of Krynn | $12 |
| Dark Sun | $47 |
| Dark Sun Grey Isl Ex Pk | $34 |
| Dark Sun CD | $49 |
| Darklands | $29 |
| Darklands Mstr Ed wbk | $51 |
| Daughter of Serpents | $19 |
| Death Knights of Krynn | $21 |
| Disciples of Steel | $35 |
| Dragon Strike | $12 |
| Dragon Tales CD | $38 |
| Dragons of Flame | $9 |
| Dungeon Hack | $38 |
| Dungeon Hack CD | $39 |
| Dungeon Master | $29 |
| Dungeon Master 2 | $36 |
| Elvira 2 Jaws Cerberus | $16 |
| Eternam | $19 |
| Eye of the Beholder 1 | $14 |
| Eye of the Beholder 2 | $19 |
| Eye of the Beholder 3 | $42 |
| Eye of Beholder 3 CD | $42 |

# CHIPS&BITS

Call 800-699-4263 Fax 802-767-3382
Int'l 802-767-3033 Source 10073
PO Box 234 Dept 10073 Rochester, VT 05767

## IBM ROLE PLAYING

| | |
|---|---|
| Fire King | $24 |
| Flames of Freedm MWII | $24 |
| Forgotten Castle | $49 |
| Forgotten Castle CD | $55 |
| Four Crystals of Trazere | $16 |
| Gateway Savage Frontr | $32 |
| Gods | $16 |
| Hero's Mght & Magc CD | $45 |
| Heroes of Might & Magic | $45 |
| Intrplay's 10 Yr Anthl CD | $48 |
| Joan of Arc | $12 |
| Lands of Lore | $34 |
| Lands of Lore CD | $41 |
| Legacy: Realm Of Terror | $39 |
| Legend | $22 |
| Lord of the Rings CD | $38 |
| Lord of the Rings V1 | $15 |
| Lord of the Rings V2 | $32 |
| Lord of the Rings V1 & 2 | $19 |
| Lords of Midnight | $48 |
| Lords of Midnight CD | $55 |
| Loremaster | $19 |
| Lure of the Temptress | $16 |
| *Magic Candle 2 | $9 |
| Magic Candle 3 | $9 |
| Matrix Cubed | $9 |
| *MegaTraveller:Zhodani | $6 |
| MegaTraveller 2 | $12 |
| Megatraveller | $18 |
| Might & Magic 3 | $19 |
| Might & Magic 4 | $37 |
| Might & Magic 5 | $36 |
| Mines of Titan | $9 |
| Pirates Gold | $39 |
| Planet's Edge | $22 |
| Pool of Radiance | $15 |
| Pools of Darkness | $38 |
| Protostar | $39 |
| Ravenloft:Strahd's Pssn | $48 |
| Ravenloft CD | $52 |
| Realms of Arkania | $36 |
| Red Crystal | $21 |
| Riftwar Legacy CD | $25 |
| Rome: Pathway to Pwr | $29 |
| Secret Silver Blades | $15 |
| Sentinel Worlds 1 | $9 |
| Shadow Caster CD | $45 |
| Shadow Sorcerer | $9 |
| Sherlock Holmes 1 CD | $36 |
| Sherlock Holmes 2 CD | $36 |
| Sherlock Holmes 3 CD | $51 |
| Skyrealms of Jorune | $48 |
| Skyrealms of Jorune CD | $50 |
| Sleeping Gods Lie | $6 |
| SpellJmr:Pirates Spc | $16 |
| Spellcraft:Aspct of Valor | $19 |
| Star Saga 2 | $19 |
| Star Trek Deep Space 9 | $52 |
| Star Trk Dp Space 9 CD | $52 |
| Startrek Next Gener CD | $56 |
| Stonekeep | $46 |
| Stonekeep CD | $48 |
| Stronghold | $36 |
| Summoning | $16 |
| Sword of China | $42 |
| Syndicate | $39 |
| Syndicate CD | $42 |
| Tales Magic:Prphc Shad | $16 |
| Terran Envoy | $9 |
| Treasures Savage Frontr | $9 |
| Ultima 4 Quest of Avatar | $35 |
| Ultima 5 Warriors of Dst | $38 |
| Ultima 6 False Prophet | $19 |
| Ultima 7 Black Gate | $47 |
| Ultima 7 Forge of Virtue | $16 |
| Ultima 7 Series CD | $42 |

## IBM ROLE PLAYING

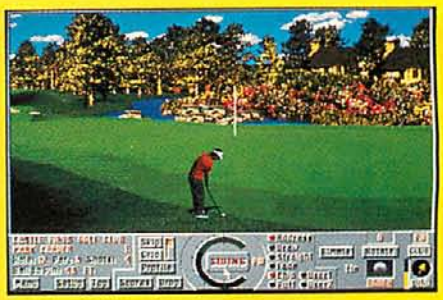
| | |
|---|---|
| Ultima 7.5 Pt 2 Silvr Sd | $20 |
| Ultima 7.5 Serpent Isle | $48 |
| Ultima 8 CD | $47 |
| Ultima 8: Pagan | $48 |
| Ultima 8: Speech Pack | $17 |
| Ultima Undrwrld 1&2 CD | $59 |
| Ultima Uwrld 2 Labyrinth | $48 |
| Ultima Uwrld Stygn Abss | $21 |
| Uncharted Waters | $42 |
| Unlimited Adventures | $37 |
| Veil of Darkness | $29 |
| War of the Lance | $9 |
| Waxworks | $14 |
| Wing Comd 2 UUW CD | $34 |
| Wizardry 4 | $19 |
| Wizardry 6 Cosmic Forg | $22 |
| Wizardry 7 Crusaders | $29 |
| World of Xeen CD | $40 |

## IBM SIMULATIONS

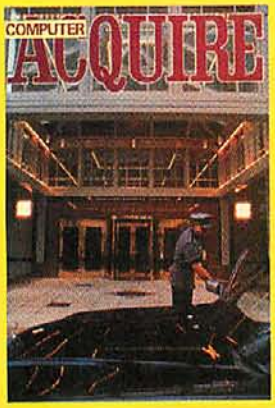
| | |
|---|---|
| A T P 2.0 | $29 |
| A T P Flight Sim 1.00 | $12 |
| A.T.A.C | $30 |
| A320 Airbus | $29 |
| AH-64 B Longbow | $54 |
| Aces Europe Mis Disk 1 | $27 |
| Aces Pacific Mis Disk | $19 |
| Aces of the Deep | $39 |
| Aces of the Deep CD | $39 |
| Aces of the Pacific | $44 |
| Aces of the Pacific CD | $39 |
| Aces over Europe | $39 |
| Aces over Europe CD | $39 |
| Across the Rhine | $48 |
| Air Combat Pacific 1942 | $48 |
| Air Duel | $33 |
| Air Warrior SVGA | $34 |
| AirportFacilities Dir | $12 |
| Armored Fist | $44 |
| Armour Geddon | $32 |
| Army Air Corps: 1942 | $48 |
| Art of the Kill | $24 |
| Assignment Miami | $19 |
| B17 Flying Fort Classic | $19 |
| B17 Fly Fort w SS2 CD | $37 |
| Backroad Racers CD | $29 |
| Battle Command | $6 |
| Battle of Britain | $34 |
| Battlecruiser 3000 | $45 |
| Blue Max Aces Great War | $9 |
| *Cardinal of the Kremlin | $6 |
| *Cardinal of the Kremlin | $9 |
| Chopper Pack CD | $40 |
| Coaster | $32 |
| Combat Classics 2 | $19 |
| Conqueror Multi Tank | $6 |
| Cyber Race | $19 |
| Cyber Race CD | $39 |
| Das Boot Submarine | $12 |
| Delta V | $42 |
| Elite Plus | $19 |
| European Racers CD | $29 |
| Evasive Action | $34 |
| Evolver | $38 |
| Eye of the Storm Flt Sim | $29 |
| F117A Stlh Fighter VGA | $29 |
| *F15 Strike Eagle 2 | $15 |
| F15 Strike Eagle 3 | $34 |
| F15 Strk Eagle 3 Acs Pk | $52 |
| F15 Strike Eagle 3 CD | $48 |
| F19 Stealth Fighter | $18 |
| F40 Pursuit Simulator | $29 |
| FA 18 Hornet | $54 |
| FA 18 Hornet CD | $54 |



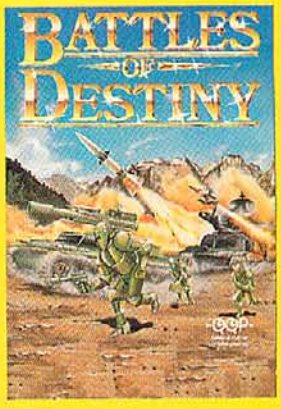
**'AUTOCOCKPIT'** from Simulations Systems is the most functional and toughest constructed auto sim control system available. It is designed to emulate the current McLaren F1 cockpit setup with left foot braking and pushbutton shifting on the back of the wheel spokes, thus allowing the driver maximum efficiency. **$169**



**'LINKS PRO CASTLE PINES'** Set in the land of Colorado is the Castle Pines Golf Club designed by Jack Nicklaus. This course offers 7,495 yards of golfing challenge, the longest PGA Tour course, and beautiful graphics. **$19**




**'ACQUIRE'** the classic board game is now available for your computer. Buy hotels, create chains, and trade stock in those chains to become the richest player in the game. The rules are simple and the possible winning strategies unlimited in this fast paced game. Play against the computer or with 2 to 6 players. **$9**




**'BATTLES OF DESTINY'** In order to conquer the world you must seek out and destroy up to three opponents. Features modem play; air, ground and naval combat; 22 different units to construct; more than 20 worlds to conquer, campaign style play, and a complete player history. **$15**

## IBM SIMULATIONS

| | |
|---|---|
| Falcon 3.0 | $46 |
| Falcon 3 S 1 Fghtg Tiger | $24 |
| Falcon 3 S 2 MiG 29 | $32 |
| Falcon 3 S 3 FA 18 Hrnt | $32 |
| Falcon AT | $16 |
| Falcon Gold CD | $49 |
| Fast Attack CD | $48 |
| Fleet Defndr F14 Tomcat | $48 |
| Flight | $52 |
| Flight Adventures 825 | $39 |
| Flight Planner | $24 |
| Flight Sim Flight Shop | $29 |
| Flight Sim ToolKit | $58 |
| Flight Sim Toolkit CD | $54 |
| Flight Sim T-kit Ex Dk 1 | $28 |
| Flight of the Intruder | $16 |
| Fly the Grand Canyon | $32 |
| Flying Circus | $39 |
| Formula 1 | $24 |
| Frontier Elite 2 | $38 |
| Grand Canyon Scenery | $18 |
| Great Nav Bat Ships Atl | $19 |
| Great Naval Battles CD | $52 |
| Great Naval Battles 2 | $44 |
| Great Naval Battls 2 CD | $42 |
| Great Nav Bat Sc Build | $24 |
| Gunship 2000 Scen Dsk | $24 |
| Gunship 2000 VGA | $34 |
| H.A.W.C. | $32 |
| Harrier Assault | $19 |
| Harrier Assault SVGA | $47 |
| Harrier Asslt SVGA CD | $44 |
| Heatwave | $6 |
| Heroes of the 357th | $14 |
| Hyperspeed | $16 |
| Indy Car Racing | $35 |

## IBM SIMULATIONS

| | |
|---|---|
| Indy Car Racg Add On 1 | $22 |
| Indy Car Racg Add On 2 | $22 |
| Inferno | $39 |
| Inferno CD | $39 |
| Iron Angel | $39 |
| Iron Angel CD | $39 |
| Japan Scenery Disk | $12 |
| Jet Fighter 2.0 | $39 |
| Jet Pack CD | $44 |
| Jetfighter 3 | $44 |
| Jump Jet | $39 |
| Jump Jet Aces Pack | $46 |
| Jutland CD | $44 |
| Killing Cloud | $6 |
| Lawn Mower Man CD | $39 |
| Life and Death | $19 |
| Life and Death 2 | $24 |
| Lightspeed | $9 |
| Loderunner | $39 |
| Lunar Command | $24 |
| M1 Tank Platoon 2 | $44 |
| M1 Tank Platoon Classic | $19 |
| M4: Sherman Tank Sim | $34 |
| Mantis Exp Speech Pak | $19 |
| Mantis Experim Ftr VGA | $28 |
| Maximum Ovrkill Bdl CD | $59 |
| Maximum Overkill MD 2 | $32 |
| Mech Wars | $48 |
| Mech Wars CD | $48 |
| Mechwarrior 2 | $46 |
| Mechwarrior 2 Add-on | $19 |
| Mechwarrior 2 CD | $46 |
| MegaFortress | $12 |
| Megarace CD | $39 |
| Metal Tech: Battledrome | $29 |
| MiG 29 | $44 |

## IBM SIMULATIONS

| | |
|---|---|
| MS Flight Sim 5.0 | $46 |
| MS Flight Sim 5 Ls Vegs | $29 |
| MS Flight Sim 5 Nw Yrk | $29 |
| MS Flight Sim 5 Paris | $29 |
| MS Flight Sim 5 Sn Fran | $29 |
| MS Flight Sim 5 Portlnd | $32 |
| MS Flight Sim 5 DC | $29 |
| MS Flight Sim Flt Shop | $32 |
| Microsoft Space Sim 1.0 | $44 |
| Mig 29 Gold CD | $49 |
| MigN29 Fulcrum | $29 |
| Mule 2 | $44 |
| New Facilities Locator | $9 |
| Nomad CD | $36 |
| Operation Airstorm CD | $42 |
| Pacific Strike | $49 |
| Pacific Strike Spch Pak | $17 |
| Power Politics WIN | $12 |
| Praxim | $32 |
| Privateer | $48 |
| Privateer CD | $56 |
| Privateer Special Opertn | $19 |
| Privateer Spec Opertn 2 | $22 |
| Privateer Speech Pack | $17 |
| Rally | $29 |
| Reach for the Skies | $19 |
| Real Weather Pilot | $29 |
| Red Brn A10 Tnk Kill CD | $34 |
| Red Baron VGA | $29 |
| Road & Trck Grand Prix | $19 |
| Sailing Simulator 3 | $42 |
| Sailing Sm 3 East Coast | $32 |
| Sailing Sm 3 West Coast | $32 |
| Scenery Collection Set A | $9 |
| Scenery Collection Set B | $9 |
| Scenery Colltn California | $9 |

## IBM SIMULATIONS

| | |
|---|---|
| Scenry Colltn Grt Britain | $9 |
| Scenry Enhancemnt Ed | $21 |
| Sea Wolf | $44 |
| Sea Wolf CD | $52 |
| Seal Team | $36 |
| Secret Weap Ex He162 | $21 |
| Secret of Dinosaurs CD | $44 |
| Semper Fi | $44 |
| Shuttle | $26 |
| Shuttle CD | $24 |
| Silent Service 2 | $21 |
| Space Racers CD | $44 |
| Spectre VR CD | $45 |
| Spectre Virtual Reality | $38 |
| Speed Racer | $26 |
| Starlord | $39 |
| Strike Commander | $34 |
| Strike Commander CD | $55 |
| Strike Commdr Sp Op 1 | $22 |
| Strike Commdr Spch Pk | $19 |
| Stunt Island | $37 |
| Sub War 2050 | $35 |
| Syndicte S1 Amer Revlt | $22 |
| TFX CD | $45 |
| TFX: Tactcal Fightr Expr | $39 |
| Tank | $16 |
| Task Force Admirals Pck | $45 |
| Team Yankee 2 | $19 |
| Team Yankee 2 CD | $29 |
| Test Drive 2 | $12 |
| Test Drive 2:Collection | $19 |
| Test Drive 2:Euro Chall | $6 |
| Test Drive 3 | $19 |
| Test Drive 3: Passion | $19 |
| Test Drive 3:Road & Car | $9 |
| The Big One CD | $29 |

Visa/MC Accepted. Checks Held 4 Weeks. Money Orders same as cash. COD $8. Defectives replaced with same product. Most items shipped same day. Shipping times may vary. Price/availability may change. All sales final. Call for details.

**OVERNIGHT SHIPPING** in US $4 per order. Mail to Canada, PR, HI, AK, APO, FPO $4 per order. 4-8 day Worldwide shipping $6 per item. Handling $2 per shipment.

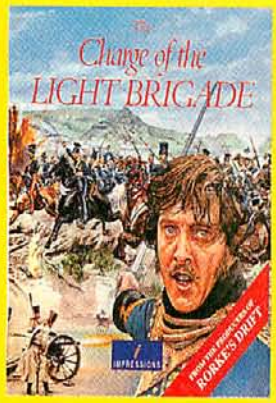
# FREE GAME OFFER*




**'LORDS OF MIDNIGHT'** Luxor, the ruler of Midnight, was taken prisoner by Boroth. Rescue the ruler and twelve prisoners held in the Citadel. Has 3D landscape, almanac of characters, and a point and click interface to move around. **$48**



**'SUPERHERO LEAGUE OF HOBOKEN'** Lead a hilarious band of mutant superheros into battle in the post-nuclear wasteland of Hoboken, NJ. Your party includes Captain Excitement, Zaniac, and Tropical Oil Man. Your arch-nemesis is the evil Dr. Entropy, determined to thwart the rebirth of civilization. **$34**




**'THE CHARGE OF THE LIGHT BRIGADE'** During the Crimean War, was one of the bravest, and saddest incidents in British Military History. Of the 673 men who began the charge only 195 were fit for action at its end. Features a large game area, 2 player mode, animated graphics, & tactical maps. **$12**

## *FREE GAME OFFER

Spend the specified amount on any in stock IBM software and choose a free IBM game from the corresponding list below. Offer subject to change or cancellation without notice. Valid from June 1st through July 31st or while supplies last.

### SPEND $60 GET

Playmaker Football Combo, Cardinal of Kremlin 3.5, Darkhalf 3.5, Trump Castle 2 Data Disk 1 or 2 3.5 or 5.25, Gunship 5.25, Pirates 5.25, Star Legions 5.25, Magic Candle 2 5.25, MacArthurs War 5.25, Crime Does Not Pay 5.25, Warlords 5.25, X-Men 5.25

### SPEND $100 GET

Airborne Ranger 5.25, Tegel's Mercenaries 5.25, Command HQ 5.25, F15 SE 2 5.25, M1 Tank Platoon 3.5, Megatraveller Zhodani 5.25, Red Storm Rising 3.5, Battles of Destiny 3.5

## IBM HINT BOOKS

| | |
|---|---|
| Indi Jones 4 Fate Atlantis | $10 |
| Indy Jones Grfx Adv | $10 |
| Inherit the Earth | $16 |
| Jetfighter 2.0 | $16 |
| King's Quest 1 | $10 |
| King's Quest 2 | $10 |
| King's Quest 4 | $10 |
| King's Quest 5 | $10 |
| King's Quest 6 | $10 |
| Laura Bow 2 HintBook | $10 |
| Leisure Suit Larry 1 | $10 |
| Leisure Suit Larry 2 | $10 |
| Leisure Suit Larry 3 | $10 |
| Leisure Suit Larry 5 | $9 |
| Leisure Suit Larry 6 | $10 |
| Lemmings /disk | $18 |
| Loom | $10 |
| Lord of the Rings V1 | $12 |
| Lost Files Sherlock Hlms | $10 |
| LucasArts Adventure Bk | $16 |
| LucasArts Air Cmbt Strat | $16 |
| Manhunter San Francsc | $10 |
| Master of Orion Off Strat | $16 |
| Matrix Cubed | $10 |
| Might & Magic 1 & 2 | $10 |
| Might & Magic 3 | $16 |
| Might & Magic 4 | $16 |
| Might & Magic 5 | $16 |
| Might & Magic Cmpndm | $16 |
| Off Bk Leisr St Larry 2nd | $14 |
| Off Bk Ultima 2nd Edtn | $16 |
| Off Gde R. Wilco's Advts | $14 |
| Off Gde Kngs Qust 3rd | $16 |
| Outpost Strategy Guide | $16 |
| Pacific Strk Playtstr Gde | $12 |
| Police Quest 1 | $10 |
| Police Quest 2 | $10 |
| Police Quest 3 | $10 |
| Pool of Radiance | $10 |
| Pools of Darkness | $12 |
| Populous 1 & 2 Off Strat | $16 |
| Power Monger Strategy | $16 |
| Powermonger | $10 |
| Privateer Playtstr's Gde | $16 |
| Protostar | $8 |
| Quest For Clues 2 | $21 |
| Quest For Clues 3 | $21 |
| Quest for Clues 4 | $21 |
| Quest for Clues 5 | $16 |
| Quest for Clues 6 | $16 |
| Quest for Glory 3 | $10 |
| Quest for Glory 4 | $10 |
| Quest for Glory Strategy | $19 |
| Questbusters | $18 |
| Realms of Arkania | $14 |
| Return to Zork | $9 |
| Return to Zork Advt Gde | $16 |
| Rise of the Dragon | $10 |
| Rise of Dragon SEGA CD | $9 |
| Sam and Max | $10 |
| Sea Wolf Strategy Guide | $16 |
| Secret Monkey Island | $10 |
| Secret Monkey Island 2 | $10 |
| Secret Silver Blades | $10 |
| Shadow Caster | $18 |
| Simcity 2000 Strat Gde | $16 |
| Simearth | $16 |
| Simfarm Strategy Guide | $16 |
| Simlife Official Strategy | $16 |
| Simon the Sorcerer Gde | $10 |
| Sonic Strategy Guide | $16 |
| Space Quest 1 | $10 |
| Space Quest 2 | $10 |
| Space Quest 3 | $10 |
| Space Quest 4 | $10 |
| Star Trek 25th Aniv | $12 |

## IBM HINT BOOKS

| | |
|---|---|
| Star Trek Judgemnt Rits | $10 |
| Strike Commder Official | $14 |
| Stunt Island | $16 |
| Summoning | $16 |
| Treasures Savge Frontr | $10 |
| Tunnels & Trolls | $16 |
| Ultima 6 | $10 |
| Ultima 7 | $12 |
| Ultima 7 & Uworld Book | $16 |
| Ultima 7.5 Balancg Scls | $16 |
| Ultima Avatar Adventurs | $16 |
| Ultima U Stygian Abyss | $12 |
| Ultima UW of Lab Book | $12 |
| Wizardry 6 Cosmc Forg | $12 |
| Wizardry 7 | $16 |
| X-Wing Officl Strat Gde | $16 |
| Yserbius | $12 |

## IBM STRATEGY

| | |
|---|---|
| 18th Air Squadron | $36 |
| A Train | $34 |
| A Train Construction Set | $9 |
| A Train W Constrctn Set | $36 |
| Advanced Civilization | $35 |
| Air Force Commander | $9 |
| Airbucks 1.2 | $24 |
| Ambush at Sorinor | $42 |
| Ancient Art of War Sky | $26 |
| Archon Ultra | $34 |
| Arctic Baron | $29 |
| Arctic Baron CD | $29 |
| Armada | $22 |
| Ashes of Empire | $29 |
| Battle Isle | $32 |
| Battle Isle 2 CD | $45 |
| Battle Isle Scenario Disk | $22 |
| Battles in Time | $36 |
| *Battles of Destiny | $12 |
| Black Beard | $36 |
| Breach 2 | $12 |
| Breach 3 | $34 |
| Buzz Aldrin Race Space | $26 |
| Buzz Aldn Rac Spac CD | $54 |
| Caesar | $34 |
| Campaign 2 | $36 |
| Cannon Fodder | $22 |
| Cannon Fodder CD | $25 |
| Capitalist Pig WIN | $19 |
| Carrier Command | $9 |
| Carriers at War | $24 |
| Carriers at War Const Kit | $16 |
| Castles | $19 |
| Castles 2 | $19 |
| Castles 2 CD | $48 |
| Castles Northrn Cmpgn | $12 |
| Celtic Tales: Balor of Evil | $42 |
| Chessms 4000 Trb WIN | $36 |
| Civilization | $44 |
| Civilization WIN | $48 |
| Clash of Steel | $39 |
| Cohort 2 | $18 |
| Colonization | $48 |
| Colonization CD | $48 |
| *Command HQ | $19 |
| Command HQ Classic | $18 |
| Command and Conquer | $42 |
| Conquer for Windows | $19 |
| Conquered Kingdoms | $12 |
| Conquered Kingdoms | $15 |
| Conquered Kingdoms 2 | $36 |
| Conquered Kgdm Scn 1 | $12 |
| Conquest | $36 |
| Conquest of Japan | $36 |
| Crime City | $12 |

## IBM SIMULATIONS

| | |
|---|---|
| Theme Park | $42 |
| Theme Park CD | $48 |
| Thunderhawk | $6 |
| Tie Fighter | $48 |
| Tie Fighter Mis Disk #1 | $24 |
| Tie Fighter Mis Disk #2 | $24 |
| Top Gun Danger Zone | $12 |
| Tornado | $48 |
| Tornado CD | $42 |
| Tower | $42 |
| Tracon WIN | $28 |
| Train Engineer | $29 |
| U-Boat 2 | $36 |
| Ultrabots Sanction Earth | $36 |
| Vette | $15 |
| Voice Commander Bndl | $18 |
| W C 2 Operation 2 | $22 |
| W C 2 Speech Mod | $13 |
| W C Secret Mission | $20 |
| W C Secrt Mis 1 & 2 Bdl | $20 |
| W C Secret Missn 2 HD | $20 |
| Wild Blue Yonder CD | $49 |
| Wing Armada | $54 |
| Wing Commander | $21 |
| Wing Commander 2 | $26 |
| Wing Commander 2 Bdl | $29 |
| Wing Commdr 2 Dlx CD | $29 |
| Wing Commander 3 | $52 |
| Wing Commander 3 CD | $54 |
| Wing Commander Acad | $25 |
| Wings of Glory | $49 |
| Wolf Pack CD | $33 |
| Wolfpack | $26 |
| World Circuit | $29 |
| World Circuit CD | $34 |
| X-Wing | $42 |

## IBM SIMULATIONS

| | |
|---|---|
| X-Wing Mission Disk 1 | $19 |
| X-Wing Mission Disk 2 | $19 |
| Zephyr | $45 |

## IBM EDUCATIONAL

| | |
|---|---|
| Aesop's Mmdia Fbls CD | $30 |
| Alge Blaster Plus | $32 |
| Ancient Empire | $25 |
| Annabl's Ancnt Egpt CD | $52 |
| Auto Insight | $29 |
| Auto Map | $39 |
| AutoWorks | $39 |
| Body Insight | $29 |
| Boom Box | $12 |
| Castle of Dr Brain VGA | $19 |
| Childrn's Writg & Publsh | $42 |
| Clock Works | $19 |
| Dinopark Tycoon | $34 |
| Dinosaurs CD | $48 |
| Don Quixote CD | $24 |
| Dyno-Quest | $29 |
| EcoQust Srch Cetus CD | $29 |
| EcoQuest VGA | $32 |
| Fatty Bear's Bday Surp | $32 |
| Fatty Bear's Funpck CD | $34 |
| Fatty Br's Wrld Gms CD | $44 |
| Fatty Brs Bday Surp CD | $38 |
| Island Of Dr. Brain VGA | $29 |
| Island of Dr Quandry | $26 |
| Jack and Beanstalk CD | $34 |
| Last Chance to WIN CD | $38 |
| Mario Teaches Typing | $24 |
| Mario Tches Typing CD | $48 |
| Mavis B. Tches Typing | $29 |

## IBM EDUCATIONAL

| | |
|---|---|
| Mavis B. Tchs Typg WIN | $34 |
| MS Gallery: London CD | $45 |
| Microsoft Dinosaurs CD | $42 |
| Mmedia: Vivaldi WIN CD | $24 |
| Orbits: Voyge Solar Sys | $24 |
| Oregon Trail WIN | $34 |
| Oregon Trail WIND CD | $39 |
| Print Shop Deluxe | $49 |
| Print Shop Dlx Bus Grph | $26 |
| Putt Putt Goes to Moon | $42 |
| Putt Ptt Gs to Moon CD | $44 |
| Putt Putt Joins Parade | $32 |
| Putt Ptt Joins Parde CD | $48 |
| Putt Putt's Funpack CD | $34 |
| Putt Putts Fun Pack | $19 |
| Qurky Quays's Sci VGA | $29 |
| Reader Rabbit 2 WIN | $29 |
| Rodney's Funscreen | $19 |
| Scooter's Magic Castle | $32 |
| Scootr's Magic Cstl CD | $34 |
| Secret Islnd Dr. Quandry | $29 |
| Slater & Charlie CD | $42 |
| Slater & Chrl Go Cmpng | $29 |
| Snoopy's Fun Pack | $9 |
| Softwr Tlwks Refrnc CD | $79 |
| Stickybr Parts of Speech | $32 |
| Stickybear Reading | $24 |
| SS: Gizmos & Gadgets | $26 |
| Wacky Funster | $9 |

## IBM HINT BOOKS

| | |
|---|---|
| A-Train | $16 |
| Advent Willie Beamish | $10 |
| Alone in the Dark2 | $10 |

## IBM HINT BOOKS

| | |
|---|---|
| Arena | $10 |
| Blue Force: Next of Kin | $10 |
| Castle Wolfenstein 3D | $10 |
| Castle of Dr Brain | $10 |
| Champions of Krynn | $10 |
| Civilization | $16 |
| Codename Iceman | $10 |
| Comptr Adv Gm Secrts | $16 |
| Conquests Robin Hood | $10 |
| Conquests of Camelot | $10 |
| Curse of Azure Bonds | $10 |
| Dark Queen of Krynn | $10 |
| Doom | $10 |
| Dracula Unleashd strat | $16 |
| Dungeon Master | $10 |
| Dynamix Grt War Planes | $16 |
| EcoQuest Srch for Cetus | $10 |
| Eye of the Beholder | $10 |
| Eye of the Beholder 2 | $12 |
| Eye of the Beholder 3 | $12 |
| Flights of 13 Mike | $16 |
| Fred Pharkas Fron Pharm | $8 |
| GEN Secrets of Game | $10 |
| Gabriel Knight | $10 |
| Gateway Savage Frontr | $10 |
| Globl Conqust Strat w/dk | $21 |
| Gobliiins | $10 |
| Gold Rush | $6 |
| Gunship 2000 | $16 |
| Hand of Fate | $10 |
| Harpoon | $16 |
| Harpoon 2 Strategy Gde | $16 |
| Heart of China | $10 |
| Hillsfar | $8 |
| IE Episode 0 CD Magzne | $9 |
| IE Episode 1 CD Magzne | $9 |

# CHIPS&BITS

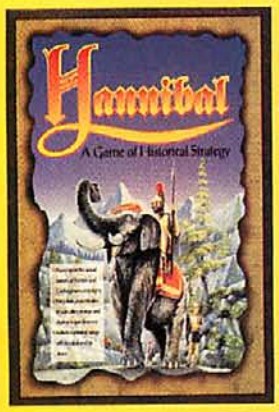
Call 800-699-4263 Fax 802-767-3382
Int'l 802-767-3033 Source 10073
PO Box 234 Dept 10073 Rochester, VT 05767

## IBM STRATEGY

| | |
|---|---|
| Crisis in the Kremlin | $32 |
| Darklegions | $42 |
| Darklegions CD | $38 |
| Dead Zone CD | $52 |
| Detroit | $39 |
| Discovry Stp Columbus | $34 |
| Dominion: 1 King's Life | $41 |
| Dominus | $39 |
| Dragon Force | $12 |
| Dragon Lord | $9 |
| Dune | $21 |
| Dune 2 | $34 |
| El Fish | $34 |
| Empire Builder | $36 |
| Empire Deluxe | $34 |
| Empire Dlx Mstr Edit CD | $45 |
| Empire Deluxe Scen 1 | $21 |
| Empire Deluxe WIN | $35 |
| Fantasy Empires | $39 |
| Fantasy Empires CD | $45 |
| Fantasy Fiefdom CD | $48 |
| Fighting for Rome | $12 |
| Fort Apache | $19 |
| Gemfire | $37 |
| Genesia | $0 |
| Genghis Khan 2 | $34 |
| Gettysburg | $29 |
| Gettysburg: Turning Pnt | $24 |
| Global Domination | $34 |
| Gobliiins 2 Princs Buffn | $16 |
| Gold of the Americas | $24 |
| Grandest Fleet | $35 |
| Great Nav Batt Admir Pk | $49 |
| Hannibal | $29 |
| Harpoon 2 | $44 |
| Harpoon 2 Battle Set 1 | $26 |
| Harpoon Challnger Pak | $24 |
| Heirs to the Throne | $21 |
| Hollywood Mogul | $39 |
| HUMANS | $24 |
| Humans CD | $28 |
| Humans: Insult to Injury | $9 |
| Incredible Machine 2 | $28 |
| Incredible Machine 2 CD | $29 |
| Kingdoms of France | $34 |
| Kingdoms of Germany | $36 |
| Kingmaker | $34 |
| Koshan Conspiracy | $36 |
| Koshan Conspiracy CD | $48 |
| L'Empereur | $37 |
| Lase Squad | $12 |
| Lemmings 2: Tribes | $29 |
| Lemmings Datadisk | $19 |
| Lemmings ODCP | $19 |
| Lemmings W Dtdisk CD | $45 |
| Liberty or Death | $37 |
| Lords of the Realm | $39 |
| Lost Admiral | $19 |
| Lost Admiral 2 | $39 |
| Lost Vikings | $15 |
| Maelstrom | $32 |
| Master of Orion | $39 |
| Medieval Lords | $12 |
| Mega Lo Mania | $19 |
| Merchant Colony | $17 |
| Merchant Prince | $39 |
| Millenium | $6 |
| New World Order | $38 |
| Nobunaga's Ambition | $37 |
| Nobunaga's Ambition 2 | $37 |
| Objection | $19 |
| Operation Combat | $12 |
| Outpost | $39 |
| Outpost CD | $39 |
| Outpost Missn Disk CD | $19 |
| Paladin 2 | $34 |

## IBM STRATEGY

| | |
|---|---|
| Patrician | $34 |
| Patrician CD | $36 |
| Pax Imperia | $42 |
| Perfect General | $21 |
| Perfect General 2 | $36 |
| Perfect General Sc 2 20th | $24 |
| Perfct Gnrl Sc Dk WW2 | $12 |
| Populous 2 | $28 |
| Populous 2 Challenge | $19 |
| Powermonger | $19 |
| Protostar CD | $39 |
| Rags to Riches | $36 |
| Railroad Tycoon 2 | $39 |
| Railroad Tycoon Classic | $19 |
| Rampart | $17 |
| Reach for the Stars | $24 |
| Realms | $16 |
| Red Ghost | $39 |
| Red Zone | $32 |
| Renegde Legion Intrcptr | $12 |
| Robo Sport WIN | $34 |
| Romance 3 Kingdoms 2 | $39 |
| Romance 3 Kingdoms 3 | $39 |
| Rules of Engagement | $16 |
| Rules of Engagement | $9 |
| Rules of Engagement 2 | $34 |
| Rules of Engag 2 Cpgn | $19 |
| Second Conflict WIN | $34 |
| Serf City: Life is Feudal | $39 |
| Seven Cities Gold 2 | $19 |
| Sid Meir's Civil War | $58 |
| Siege | $12 |
| Siege With Exp Disk | $19 |
| Sim Ant | $29 |
| Sim Ant WIN | $34 |
| Sim Ant CD | $47 |
| Sim City | $27 |
| Sim City WIN | $29 |
| Sim City CD | $47 |
| Sim City Classic | $26 |
| Sim City Classic Win | $26 |
| Sim City 2000 | $39 |
| Sim City 2000 Wind | $42 |
| Sim City 2000 CD | $45 |
| Sim City 2000 Grt Dissir | $14 |
| Sim Earth | $29 |
| Sim Earth WIN | $29 |
| Sim Earth CD | $47 |
| Sim Farm | $29 |
| Sim Life | $29 |
| Sim Life WIN | $29 |
| Sim Town | $44 |
| Sim Town CD | $44 |
| Smokin' Gun WIN | $28 |
| Space Hulk | $19 |
| Space Hulk CD | $42 |
| Space Miner | $36 |
| Spaceward Ho! | $36 |
| Spaceward Ho! WIN | $36 |
| Star Control 2 | $39 |
| *Star Legions | $9 |
| Strike Squad | $39 |
| Stronghold CD | $36 |
| Sub Version | $36 |
| Tank | $36 |
| Task Force 1942 | $36 |
| *Tegel's Mercenaries | $9 |
| Tegel's Mercenaries 2 | $44 |
| Termintr 2 Chesswrs CD | $27 |
| The Complete UMS | $44 |
| Theatre of War | $16 |
| Ticonderoga | $46 |
| Unnatural Selection | $29 |
| Victory or Defeat WIN | $42 |
| Viking Conquest | $36 |
| Vikings 2 | $36 |



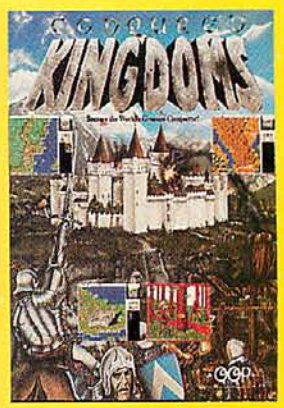

**'HANNIBAL'** takes history out of the history books and into your PC. Experience the life and times of one of history's most controversial heroes. You are Hannibal. Based on the actual history of Roman and Carthaginian campaigns. Offers over 700 towns, go to market to equip your army, and negotiate peace or siege. **$29**




**'DISCIPLES OF STEEL'** Your sacred quest is to save your once rich and vast land from total destruction. You must unite the people of Lanathor to defeat the evil hordes. Offers amazing 3D adventure, control up to 8 disciples, stunning graphics, huge array of magical spells, and hundreds of quests. **$35**




**'ELVIRA II: JAWS OF CERBERUS'** An evil force has penetrated our universe, possessing Black Widow Productions in Hollywood. Your must rescue Elvira, the studio's owner, from three craven worlds. Offers over 120 hours of suspense, over 700 deadly weapons, and fully animated opponents. **$16**




**'CONQUERED KINGDOMS'** Plunge into a medieval world to conquer Cascatia. Invade castles, fly over mountains, and use the forests to your advantage. Features nine scenarios, human and fantasy combat troops, 21 levels of difficulty, modem play, and complete game scoring history. **$15**

## IBM STRATEGY

| | |
|---|---|
| Vikings Fields Conquest | $19 |
| Visions of Aftermath | $12 |
| Walls of Rome | $39 |
| War in the Gulf | $9 |
| *Warlords | $12 |
| Warlords 2 | $38 |
| Warlords 2 Scen Editor | $29 |
| When Two Worlds War | $34 |
| Worlds at War | $19 |

## IBM SPORTS

| | |
|---|---|
| APBA Baseball | $24 |
| APBA Baseball Innovator | $34 |
| APBA BB Statmastr 2.0 | $29 |
| APBA Bowling | $14 |
| APBA Hockey | $34 |
| APBA Micro Manager | $32 |
| All Amer Coll Fball '94 | $42 |
| Barkley: Shut Up & Jam | $42 |
| Baseball for Windows | $46 |
| Bball Chall 1987 Teams | $9 |
| Bball Chall 1988 Teams | $9 |
| Bball Chall 1989 Teams | $9 |
| Blood Bowl | $39 |
| Brett Hull Hockey | $42 |
| CD-ROM Baseball CD | $24 |
| David Robnsn NBA Actn | $44 |
| Dirk's Baseball Encyc | $19 |
| Face Off | $9 |
| Front Page Football Pro | $45 |
| Front Page Sports BB | $42 |
| Goal | $18 |
| Greens | $34 |
| Hardball 3 | $19 |

## IBM SPORTS

| | |
|---|---|
| Hardball 3 | $34 |
| Hardball 3 Collection | $39 |
| Hardball 3 Players Disk | $16 |
| Hardball 3 Stadium Disk | $16 |
| Hardball 4 | $34 |
| Hole In One Mini Golf | $6 |
| Hole In 1 Mini Glf Crs Dk | $3 |
| Hole in 1 Mini Golf Dlx | $12 |
| International Sports Chall | $6 |
| Jack Nicklaus Clip Art | $3 |
| Jack Nicklaus Crs Disk 1 | $6 |
| Jack Nicklaus Crs Disk 3 | $6 |
| Jack Nicklaus Crs Disk 5 | $4 |
| Jack Nicklaus Crs Disk 5 | $6 |
| Jack Nicklaus SE Crs 1 | $4 |
| Jack Nicklaus Signtr Ed | $27 |
| Jack Nicklaus SE Crs 2 | $16 |
| Joe Montana Football 2 | $42 |
| Links Crses 2 Firestone | $17 |
| Links Pro 386 Golf | $32 |
| Links Pro 486 CD | $42 |
| Links Pro C 1 Muna Kea | $19 |
| Links Pro C 2 Pinehurst | $16 |
| Links Pro C 3 Banff Spr | $19 |
| Links Pro Crs 4 Belfry | $19 |
| Links Pro Crs 5 Innsbrk | $19 |
| Links Pro C 6 Firestone | $20 |
| Links Pro C 7 Pebl Bch | $24 |
| Links Pro C 8 Cstl Pines | $19 |
| ML 1950s World Series | $17 |
| ML 1960s World Series | $17 |
| ML 1970s World Series | $17 |
| ML 1980s World Series | $17 |
| ML BB 4 USAT Fan Man | $25 |
| ML BB 4 USAT Gen Mn | $19 |
| ML Baseball All Stars | $12 |

## IBM SPORTS

| | |
|---|---|
| ML BB Pro Teams ea | $20 |
| ML BB Manager's Ch | $12 |
| ML Football 2 | $12 |
| ML Personal Pro Golf | $28 |
| Madden Player Stats 89 | $8 |
| MicroL BB Seattle I3 | $12 |
| MicroL 82 BB Season | $17 |
| MicroL 83 BB Season | $17 |
| MicroL 84 BB Season | $17 |
| MicroL 85 BB Season | $17 |
| MicroL 86 BB Season | $17 |
| MicroL 87 BB Season | $17 |
| MicroL 88 BB Season | $17 |
| MicroL 89 FB Season | $17 |
| MicroL BB 4 USA Today | $28 |
| Microsoft Golf CD | $48 |
| Microsoft Golf WIN | $48 |
| NFL Chall Col Almn Tms | $9 |
| NFL Chall Pre Season 90 | $9 |
| NFL Chall Pre Season 91 | $9 |
| NFL Chall All Star Team | $9 |
| NFL Chall Dream Teams | $9 |
| NFL Chall Premium Ed | $59 |
| NFL Coaches Club | $34 |
| NFL Cches Club Ex Dsk | $19 |
| NFL Cches Club FB CD | $34 |
| NFL Proleague Football | $12 |
| NFL Video Football | $12 |
| NHL Hockey | $43 |
| PGA Tour Golf Ltd Ed | $32 |
| PGA Tour Golf WIN | $38 |
| Pga Tour Crs 1 WIN | $17 |
| *Playmaker Football | $12 |
| ProFtball Analyst 92 Ed | $9 |
| Proleague Football '94 | $29 |
| QuarterPole | $26 |

## IBM SPORTS

| | |
|---|---|
| RBI 2 | $9 |
| Road to Final Four 2 | $41 |
| Sporting Triangle | $3 |
| Summer Challenge | $34 |
| The Games Wintr Chall | $29 |
| Tie Break Tennis | $9 |
| Time Out Sports BB | $25 |
| Time Out Sports Bsktball | $39 |
| Tom Landry Football | $29 |
| Tom Landry Football Dlx | $29 |
| Tony LRss Classic Stad | $12 |
| Tony LaRussa BB 1990 | $12 |
| Tony LaRussa BB 1991 | $12 |
| Tony La Russa BB 2 | $35 |
| Tony La Russa BB 2 CD | $46 |
| Tony LRss BB 2 92 Tm | $14 |
| Tony LRss BB 2 Fan Mn | $14 |
| Tony LRss BB 2 Stadm | $18 |
| Tony LaRussa Baseball | $9 |
| Tony LaRussa NL Stad | $15 |
| Tony LRss BB 2 '93 Tm | $16 |
| Unnecessry Roughness | $33 |
| Wayne Gretzky Hocky 3 | $42 |
| Weaver Baseball 2.0 | $17 |
| Weaver Commssnr Dk 2 | $16 |
| Weavr Tm/Playr Stats 89 | $3 |

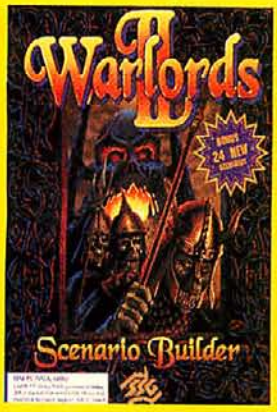
## IBM TRADITIONAL

| | |
|---|---|
| 3 D Pinball | $12 |
| Acquire | $9 |
| Armada Villa Crespo | $9 |
| Baseball Card Collector | $6 |
| Baseball Facts | $9 |
| Battle Chss 4000 SVGA | $26 |

Visa/MC Accepted. Checks Held 4 Weeks. Money Orders same as cash. COD $8. Defectives replaced with same product. Most items shipped same day. Shipping times may vary. Price/availability may change. All sales final. Call for details.

**OVERNIGHT SHIPPING** in US $4 per order. Mail to Canada, PR, HI, AK, APO, FPO $4 per order. 4-8 day Worldwide shipping $6 per item. Handling $2 per shipment.

# FREE GAME OFFER*




**'WARLORDS 2 SCEN EDITOR'** Contains routines which automatically smooth the transitions between terrain types. Offers complete control of scenario creation and 24 new scenarios. Create new maps, edit existing maps, set city revenues and descriptions, build roads, and place ruins and temples. **$29**




**'UNDER A KILLING MOON'** Transports you to the virtual world of the feisty detective Tex Murphy. New feature allows you to save and splice scenes together. Digitized voices & sound effects and an amazing level of detail & freedom of movement make this game visually & aurally stunning. **CD $55**




**'WARLORDS 2'** brings the fun and excitement of the first Warlords with 640 x 480 graphics, a hidden map option, and totally new AI system. Features random mapping for infinite replayability, troop transports for amphibious warfare, & a diplomacy option that provides the framework for backstabbing. **$29**

## *FREE GAME OFFER

Spend the specified amount on any in stock IBM software and choose a free IBM game from the corresponding list below. Offer subject to change or cancellation without notice. Valid from June 1st through July 31st or while supplies last.

### SPEND $60 GET

Playmaker Football Combo, Cardinal of Kremlin 3.5, Darkhall 3.5, Trump Castle 2 Data Disk 1 or 2 3.5 or 5.25, Gunship 5.25, Pirates 5.25, Star Legions 5.25, Magic Candle 2 5.25, MacArthurs War 5.25, Crime Does Not Pay 5.25, Warlords 5.25, X-Men 5.25

### SPEND $100 GET

Airborne Ranger 5.25, Tegel's Mercenaries 5.25, Command HQ 5.25, F15 SE 2 5.25, M1 Tank Platoon 3.5, Megatraveller Zhodani 5.25, Red Storm Rising 3.5, Battles of Destiny 3.5

## IBM TRADITIONAL

| | |
|---|---|
| Battle Chess 4000 VGA | $19 |
| Battle Chess CD | $26 |
| Battle Chess EGAVGA | $19 |
| Battle Chess WIN | $19 |
| Beat the House | $29 |
| Blackjack | $9 |
| Bridge 2: W/Omar Sharif | $28 |
| Bridge 2: W/Omar S. CD | $52 |
| Bridge 7 | $24 |
| Bridge Baron Windows | $34 |
| Bridge Olympiad | $29 |
| Bridgemaster WIN | $29 |
| CD-Romix 1 Hardcase | $16 |
| CD-Romix 2 Prime | $16 |
| CD-Romix 3 Free X CD | $16 |
| Casino Game Pak WIN | $32 |
| Casino Mastr Gold WIN | $43 |
| Checkmate WIN | $36 |
| Chess Net WIN | $9 |
| Chess X Colossus | $9 |
| ChessManiac 5 Bill & 1 | $39 |
| Chessmanc 5 Bill&1 CD | $34 |
| Chessmaster 2000 | $24 |
| Chessmaster 3000 | $29 |
| Chessmaster 3000 CD | $46 |
| Chessmaster 3000 WIN | $35 |
| Classic 5 | $19 |
| Classic 5 WIN | $24 |
| Classic Casino WIN | $16 |
| Classic Solitaire WIN | $16 |
| Coffee Break Collect CD | $29 |
| Combination Lock | $9 |
| Demon Blue | $9 |
| Dr Floyds Desktop Toys | $14 |
| Dr Thorp's mini Blackjack | $9 |
| Dr Wong's Jcks/Vid Pkr 5 | $9 |

## IBM TRADITIONAL

| | |
|---|---|
| Faces Tetris 3 | $15 |
| Gambit, Kasparov's | $39 |
| Game-Maker Ver 2.0 | $49 |
| Go Mstr Dlx V 5 WIN 53 | $79 |
| Go Mastr Jr V 5 WIN 53 | $19 |
| Go Master Tool Kit | $26 |
| Go Master T-Kit WIN 53 | $26 |
| Go Master Ver 4 WIN | $39 |
| Gofrs Winkl Adv CD WIN | $12 |
| Grandmaster Chess CD | $32 |
| H. Barbara Anim Wkshp | $39 |
| Hard Day's Night CD | $25 |
| Hearts | $12 |
| Hong Kong Mh Jng Pro | $32 |
| Hoyle's Book Games V3 | $29 |
| Hoyle's Bk Gms Classic | $29 |
| Jeopardy 2 | $9 |
| Joseki Genius | $39 |
| King's Table | $23 |
| Lawn Mowr Man SS CD | $36 |
| Lexicross | $24 |
| Lucky's Casino Advture | $38 |
| Monopoly Deluxe | $27 |
| Monopoly Deluxe WIN | $29 |
| Oligopoly | $9 |
| Omar Sharif Brdge WIN | $19 |
| Omar Sharif on Bridge | $19 |
| Omar S. Bridge Dlx CD | $46 |
| On Target | $9 |
| Origamo | $29 |
| Pictionary | $12 |
| Pinball Dreams | $29 |
| Pool Shark | $18 |
| Positronic Bridge | $30 |
| Puzzle Gallery 1 | $9 |
| Risk | $28 |

## IBM TRADITIONAL

| | |
|---|---|
| Risk WIN | $26 |
| Rodeo Games | $9 |
| Russian Six Pack | $15 |
| Russian Six Pack WIN | $19 |
| Sargon 5 | $13 |
| Scrabble Deluxe | $26 |
| Scrabble Deluxe CD | $25 |
| Scrabble Deluxe WIN | $19 |
| Shanghaii 2 | $29 |
| Solitaire Royale | $19 |
| Solitaire WIN | $19 |
| Solitaire's Journey WIN | $38 |
| Solitaires Journey | $34 |
| Sorry | $12 |
| Space Vegetables | $9 |
| Spot | $6 |
| Stan Wongs Video Pkr | $19 |
| Star Wars Chess | $38 |
| Star Wars Chess CD | $44 |
| Super Tetris | $29 |
| Swap | $29 |
| Tactical Wizard | $39 |
| Take-A-Brk Crswrd WIN | $19 |
| Terminatr 2 Chess Wars | $37 |
| Tesserae WIN | $12 |
| Tetris | $15 |
| Tetris Classic | $26 |
| Tetris Classic WIN | $26 |
| *Trump Cast 2 DD1 | $4 |
| *Trump Castle 2 DD2 | $4 |
| Trump Castle 3 | $29 |
| Trump Castle 3 CD | $29 |
| Trump Cast Collect CD | $14 |
| Turn-n-Burn | $9 |
| Vegas Entrtnm Pak WIN | $21 |
| Vegas Games Pak WIN | $21 |

## IBM TRADITIONAL

| | |
|---|---|
| Video Cube CD | $45 |
| Video Poker Villa Crespo | $9 |
| Videogame Solution CD | $29 |
| Virtual Reality Studio 2 | $64 |
| Welltris | $15 |
| Wheel of Fortune | $6 |
| Wheel of Fortune 2 | $6 |
| Wheel of Fortune 3 | $9 |
| Word Tris | $27 |
| Wrath of the Demon CD | $29 |
| Zig-Zag | $29 |

## IBM ADULT

| | |
|---|---|
| 101 Sex Positions CD | $39 |
| 101 Sex Positions 2 CD | $39 |
| 3D Beaties CD | $19 |
| 3D Darling CD | $34 |
| 3D Dream Girls CD | $36 |
| 9495 CDX Calender CD | $29 |
| Adult Movie Almanac CD | $69 |
| Adult Palate CD | $28 |
| Adult Palate 2 CD | $29 |
| Adult Reference CD | $29 |
| After Dark Trilogy CD | $34 |
| All Beauties CD | $24 |
| Amateur Allstars CD | $29 |
| Amateur Models CD | $22 |
| Amateur Video WIN CD | $22 |
| American Girls 2 CD | $34 |
| American Girls CD | $32 |
| Amorous Asian Girls CD | $32 |
| Animatd Fantasies 2 CD | $34 |
| Animatd Fantasies CD | $34 |
| Asian Palate CD | $34 |

## IBM ADULT

| | |
|---|---|
| Baby's Got Butt CD | $32 |
| Bare Assets CD | $32 |
| Best of Debtntes V1 CD | $49 |
| Best of Inferno CD | $39 |
| Best of Vivid CD | $36 |
| Best of Barlw Affairs CD | $44 |
| Best of the Best V. 1 CD | $19 |
| Best of the Best V. 2 CD | $29 |
| Best of the Best V. 3 CD | $34 |
| Best of the Best V. 4 CD | $34 |
| Betrayal CD | $36 |
| Beverly Hills 90269 CD | $39 |
| Beyond Explicit CD | $34 |
| Blond Justice CD | $25 |
| Bodacious Beauties CD | $36 |
| Bodycello CD | $12 |
| Bra Busting Babes CD | $29 |
| Busting Out CD | $39 |
| Busty Babes 2 CD | $36 |
| Buttmn's Euro Vactn CD | $39 |
| CD Brothel CD | $36 |
| CD Rom Collectbles CD | $26 |
| Cafe Flesh CD | $29 |
| California Daydrmer CD | $29 |
| Camp Double D CD | $29 |
| Cat and Mouse CD | $48 |
| Centerfold Squares | $21 |
| Centrflds & Covrgirls CD | $32 |
| College Girls CD | $36 |
| Come Play With Me CD | $36 |
| Condo Cuties CD | $34 |
| Creme de la Creme CD | $29 |
| Curse of Catwoman CD | $26 |
| Dangerous Blondes CD | $34 |
| Debby Does Dallas CD | $38 |
| Deception CD | $39 |
| Deep Throat CD | $36 |
| Deep Throat Girls CD | $49 |
| Digital Dancing CD | $36 |
| Digital Dreams 2 CD | $22 |
| Digital Seduction CD | $34 |
| Dirty Adult Cartoons CD | $38 |
| Doors of Passion CD | $36 |
| Double Play Vol 1 CD | $36 |
| Double Play Vol 2 CD | $36 |
| Dream Girl CD | $32 |
| Dream Machine CD | $59 |
| Dungn of Dominnce CD | $36 |
| Ecstacy CD | $34 |
| Endangered CD | $29 |
| EroticCafe CD | $48 |
| Erotica CD | $34 |
| European Erotica CD | $34 |
| Exotic Girls 3 in 1 CD | $24 |
| Expose CD | $24 |
| Extreme Delight CD | $28 |
| Femme Fatale | $26 |
| Femme Fatale Dt Disk 1 | $18 |
| Femme Fatale Dt Disk 2 | $18 |
| Femme Fatale Dt Disk 3 | $18 |
| Femme Fatale Dt Disk 4 | $18 |
| Femme Fatale Dt Disk 5 | $18 |
| Femme Fatale Dt Disk 6 | $18 |
| Femme Fatale WIN | $29 |
| Flame CD | $29 |
| Frat Girls Double D CD | $39 |
| G.I.F.s keep on Givg CD | $27 |
| Giffy Gold CD | $28 |
| Girlfriend Suzie | $44 |
| Girlfriend Teri | $49 |
| Girls Steven J Hicks CD | $29 |
| Girls of Mardi Gras CD | $39 |
| Girls of Risque CD | $34 |
| Girls of Vivid V. 1 CD | $32 |
| Girls of Vivid V. 2 CD | $32 |
| Girls, Girls, Girls CD | $29 |

## IBM ADULT

| | |
|---|---|
| Glamour Girls 1943 CD | $36 |
| Heavenly Bodies 2 CD | $45 |
| Hidden Obsessions CD | $32 |
| High Volume Nudes CD | $28 |
| Hooter Heavens CD | $36 |
| House of Dreams CD | $24 |
| Hs Sleepg Beauties CD | $39 |
| Insatiable CD | $32 |
| Intract Adlt Spl WIN CD | $12 |
| Intract Symore Butts CD | $49 |
| Interactive Lovers CD | $45 |
| Kama Sutra CD | $38 |
| L.A. Strippers CD | $34 |
| Legends of Porn 2 CD | $25 |
| Loads of Fun CD | $32 |
| Local Girls V. 2 CD | $22 |
| Lovely Ladies II CD | $39 |
| Maddams Familly CD | $44 |
| Main Street USA CD | $26 |
| Mark of Zara CD | $38 |
| Massive Mellons CD | $39 |
| Model's Memoirs CD | $48 |
| More Northrn Delght CD | $34 |
| Murphy's Brown CD | $39 |
| My First Time CD | $29 |
| Mystique of Orient CD | $39 |
| Neurodancer CD | $49 |
| New Wave Hkers 1 CD | $29 |
| New Wave Hkers 2 CD | $32 |
| Night Trips CD | $48 |
| Nightwatch Intractv CD | $44 |
| Nightwatch Intract 2 CD | $54 |
| Northern Delights CD | $32 |
| Nova Collection V. 1 CD | $26 |
| Nova Collection V. 2 CD | $29 |
| Overexposed CD | $39 |
| Pandor....AAAH'S CD | $27 |
| Paradise Club CD | $49 |
| Penthouse Intractive CD | $75 |
| Penthouse Jigsaw PG | $21 |
| Phone Sex CD Audio | $15 |
| Playboy Electrnc Datebk | $34 |
| Porkware V. 2 CD | $29 |
| Princess of Persia CD | $29 |
| Racquelle Released CD | $34 |
| Rimfire Pacific Video CD | $32 |
| Scissors N' Stones CD | $49 |
| Secrets CD | $34 |
| Sex CD | $28 |
| Sex Olympics | $19 |
| Sexual Obsession CD | $34 |
| Symr Buts Blwn Awy CD | $36 |
| Symr Buts Insd Shn CD | $36 |
| Symr Butts in Pardis CD | $36 |
| Symr Buts Honeymn CD | $36 |
| Sinfully Yours CD | $29 |
| Sizzle CD | $29 |
| Southern Beauties CD | $34 |
| Steamy Windows CD | $25 |
| Strip Poker 3 Dt Disk 1 | $16 |
| Strip Poker 3 Dt Disk 3 | $16 |
| Strip Poker 3 Dt Disk 4 | $16 |
| Strip Poker 3 Dt Disk 5 | $16 |
| Strip Poker 3 Dt Disk 6 | $16 |
| Strip Poker Professional | $34 |
| Strip Poker Pro Dt Dk 1 | $16 |
| Strip Poker Pro Dt Dk 2 | $16 |
| Strip Poker Pro Dt Dk 3 | $16 |
| Strip Poker Pro Dt Dk 4 | $16 |
| Strip Poker Pro Dt Dk 5 | $16 |
| Strip Poker Pro Dt Dk 6 | $16 |
| Strip Poker Pro Dt Dk 7 | $16 |
| Strip Poker Pro Dt Dk 8 | $16 |
| Strip Poker Pro Dt Dk 9 | $19 |
| Strip Poker Pro Dt Dk 10 | $19 |
| Supr Modl Go Wild CD | $34 |

# CHIPS&BITS

Call 800-699-4263 Fax 802-767-3382
Int'l 802-767-3033 Source 10073
PO Box 234 Dept 10073 Rochester, VT 05767

## IBM ADULT

| | |
|---|---|
| Super Smutware CD | $22 |
| Superstars of Porn CD | $24 |
| Surfer Girls CD | $39 |
| Sweet Dreams CD | $29 |
| Temptation CD | $28 |
| Devil In Miss Jones CD | $34 |
| Fisherman's Wife CD | $38 |
| Othr Side of Chelsea CD | $29 |
| Sexiest Women on CD | $24 |
| Too Nauty to say No CD | $44 |
| Toy's Not Boys CD | $29 |
| Tracy I Love You CD | $29 |
| Treasure Chest CD | $24 |
| Tropical Girls CD | $26 |
| Urotsukidoji CD | $39 |
| Virtual Vixens CD | $59 |
| Volcano CD | $34 |
| Weekend at Ernies CD | $26 |
| Wickd Q-Time Movie CD | $42 |
| Wicked Whispers CD | $36 |
| Winner Takes All CD | $39 |
| Womn Who Lov Men CD | $32 |
| Women of Venus CD | $22 |
| X-Rated Bloopers CD | $27 |

## IBM WAR GAMES

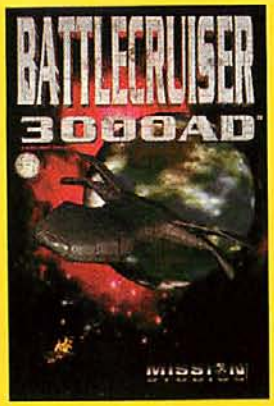
| | |
|---|---|
| Action North Atlantic | $26 |
| Action Stations Scen 1 | $3 |
| Action off River Platte | $26 |
| Aegis: Guardn of Flt CD | $53 |
| Air Raid Pearl Harbour | $22 |
| American Civil War V1 | $24 |
| American Civil War V2 | $24 |
| American Civil War V3 | $24 |
| Banzai | $9 |
| Battle Stations | $20 |
| Battle Tank Barbarossa | $36 |
| Battle Tank Kursk | $39 |
| Battle of Austerlitz | $24 |
| Battle of Leyte Gulf | $24 |
| Battle of the Atlantic | $36 |
| Battles of Napoleon | $24 |
| Battleship Bismark | $26 |
| Blitzkrieg Ardennes | $19 |
| Blue and the Grey | $38 |
| Borodino Napoln Invads | $24 |
| Bravo Romeo Delta | $24 |
| Campaign | $32 |
| Campaign CD | $35 |
| Campaign Mission 1 | $18 |
| Carrier Strike | $39 |
| Carrier Strike Exp Pak | $19 |
| Charge of Light Brigade | $12 |
| Civil War No Grter Glory | $21 |
| Conflict: Korea | $19 |
| Decision at Gettysburg | $18 |
| Dreadnoughts | $29 |
| Dreadnoughts | $34 |
| Dreadnoughts Bismark | $29 |
| Dreadnoughts Deluxe | $59 |
| Dreadnoughts Ironclads | $29 |
| Drums of Glory | $44 |
| Fall Gelb | $36 |
| Fifth Eskadra | $36 |
| Fleet Med | $27 |
| Gary Grigsby Pacifc War | $36 |
| Gary Grigsby War Rssia | $45 |
| German Raider Atlantis | $26 |
| Gettysburg:Turning Pnt | $24 |
| Golan Front | $36 |
| Grand Fleet | $36 |
| Grey Seas, Grey Skies | $36 |
| Halls of Montezuma | $24 |
| Harpoon Battle Set 4 | $19 |

## IBM WAR GAMES

| | |
|---|---|
| Harpoon Challnger Pak | $19 |
| Harpoon Designer Srs | $7 |
| Harpoon Designr Srs 2 | $25 |
| High Command | $45 |
| Kampfgruppe | $59 |
| Kriegsmarine | $36 |
| Kursk Campaign | $36 |
| Line in the Sand | $12 |
| Long Lance | $39 |
| *MacArthur's War | $9 |
| Main Batt Tank C Germ | $36 |
| Main Batt Tank MidEast | $36 |
| Main Batt Tank N Germ | $36 |
| Malta Storm | $36 |
| Man of War | $36 |
| Mare Nostrum | $26 |
| Marianas Turkey Shoot | $12 |
| Midway | $24 |
| Moscow Campaign | $36 |
| Northern Fleet | $36 |
| Operation Overlord | $36 |
| Pacifc Strm Midwy Cpgn | $36 |
| Pacifc Strm Solmn Cpgn | $36 |
| Panzer Battles | $19 |
| Patriot | $12 |
| Patton Strikes Back | $14 |
| Prelude to Jutland | $24 |
| Red Sky Morning | $36 |
| Return to Falklands | $28 |
| Rising Sun | $24 |
| Rd Sumtr to Appomttox | $45 |
| Rommel Batt for N Africa | $24 |
| Rommel at El Alamein | $36 |
| Rommel at Gazala | $36 |
| Second Front | $21 |
| Seventh Fleet | $36 |
| Stalingrad Campaign | $36 |
| Storm Across Europe | $12 |
| The Great War | $39 |
| Third Reich | $34 |
| To The Rhine | $36 |
| Typhoon of Steel | $12 |
| UMS 2 | $12 |
| UMS 2 Planet Editor | $9 |
| Under Fire | $12 |
| V Victory Market Garden | $19 |
| V Victory: Gld, Jn, Swrd | $34 |
| V Victory: Utah Beach | $19 |
| V Victory: Velikye Luki | $19 |
| V-Victory: Market Gardn | $12 |
| V-Victory: Velukye Luki | $12 |
| Victory at Sea | $48 |
| War in the Falklands | $24 |
| Warpoint | $36 |
| Warship Changd History | $26 |
| Waterloo | $19 |
| White Death | $19 |
| WW2 Batt South Pacific | $21 |

## IBM BUDGET

| | |
|---|---|
| 007 James Bond Stlh Aff | $12 |
| 3 D Pinball | $12 |
| Acquire | $9 |
| Action Stations Scen 1 | $3 |
| Air Force Commander | $9 |
| AirportFacilities Dir | $12 |
| Allied Forces Bundle | $9 |
| Amazon | $9 |
| Armada Villa Crespo | $9 |
| Artura | $4 |
| B.A.T. | $6 |
| Banzai | $9 |
| Baseball Card Collector | $6 |
| Baseball Facts | $9 |




**'BATTLECRUISER: 3000 AD'** You command a mighty Battlecriuser in order to thwart the attack of the power hungry Gammulan Empire who hover on the brink of galactic conquest. Offers advanced 3D modeling, texture mapping, interaction with 12 alien species, and extra credits earned by trading. **$45**




**'TIE FIGHTER'** Sequel to the acclaimed X-Wing, players fly under the direction of the Dark Lord himself, Darth Vader. Defy the Rebel Alliance in training, combat missions & tours of duty that strengthen the Emperor's hold on the galaxy. Six Imperial starfighters to fly under the strategies of the Empire. **$48**




**'AMAZON'** recaptures the fun & excitement of the 1950's drive-in movies. Travel to unexplored regions of the Amazon, fight 10 foot ants and find emeralds stolen by Cortez. Amazing cinematic effects such as multiple camera angles, flashbacks, pans & fades. Fully digitized voices & sound effects. **$9**




**'MEGA TRAVELLER 1: ZHODANI'** We left the Starship Races feeling pretty arrogant. Jurgen's flying earned him a ton of Imperial credits. Now someone has pinned us down on a floating chunk of rock. Offers over 70 talents and abilities, 28 worlds to explore, and over 30 weapons and weapons skills. **$12**

## IBM BUDGET

| | |
|---|---|
| Battle Command | $6 |
| Battles of Destiny | $12 |
| BB Chall 87 or 88 Tms ea | $9 |
| Bball Chall 89 Teams | $9 |
| Blackjack | $9 |
| Blue Max Aces Great War | $9 |
| Breach 2 | $12 |
| Bodycello CD | $12 |
| Boom Box | $12 |
| *Cardinal of the Kremlin | $6 |
| Carrier Command | $9 |
| Castles Northrn Campgn | $9 |
| Captain Blood | $9 |
| Champions of Krynn | $12 |
| Charge of Light Brigade | $12 |
| Chess Net WIN | $9 |
| Chess X Colossus | $9 |
| Combination Lock | $9 |
| Conquered Kingdoms | $12 |
| Conquerd Kingdms Sc 1 | $12 |
| Conqueror Multi Tank | $6 |
| Corporation | $9 |
| Covert Action | $6 |
| Crime City | $12 |
| *Crime Does Not Pay | $12 |
| *Dark Half | $9 |
| Dark Queen of Krynn | $12 |
| Das Boot Submarine | $12 |
| Demon Blue | $9 |
| Don't Go Alone | $6 |
| Dr Doom's Revenge | $9 |
| Dr Thorp's mini Blackjack | $9 |
| Dr Wong's Jcks/Vid Pkr 5 | $9 |
| Dragon Force | $12 |
| Dragon Lord | $9 |
| Dragon Strike | $12 |

## IBM BUDGET

| | |
|---|---|
| Dragons of Flame | $9 |
| E- Motion | $6 |
| Earthrise | $9 |
| Face Off | $9 |
| Fighting for Rome | $12 |
| Finale | $3 |
| Free DC | $9 |
| Gamma Force | $6 |
| Gofr Winkl Adv CD WIN | $12 |
| Gold of the Aztecs | $12 |
| Hearts | $12 |
| Heatwave | $6 |
| Hole In One Mini Golf | $6 |
| Hole In 1 Mini Golf Cr Dk | $3 |
| Hole in 1 Mini Golf Dlx | $12 |
| Humans: Insult to Injury | $9 |
| Intract Adult Spl WIN CD | $12 |
| International Sports Chall | $6 |
| Jack Nicklaus Clip Art | $3 |
| Jack Nicklaus Cr Dk 1 | $6 |
| Jack Nicklaus Cr Dk 2 | $6 |
| Jack Nicklaus Cr Dk 3 | $6 |
| Jack Nicklaus Cr Disk 5 | $4 |
| Jack Nicklaus SE Crse 1 | $4 |
| Japan Scenery Disk | $12 |
| Jeopardy 2 | $9 |
| Joan of Arc | $12 |
| Killing Cloud | $6 |
| L.A. Law | $9 |
| Laser Suad | $12 |
| Lightspeed | $9 |
| Line in the Sand | $12 |
| *MacArthur's War | $9 |
| Madden Player Stats '89 | $8 |
| *Magic Candle 2 | $9 |
| Magic Candle 3 | $9 |

## IBM BUDGET

| | |
|---|---|
| Marianas Turkey Shoot | $12 |
| Marvel Trilogy Bundle | $12 |
| Matrix Cubed | $9 |
| Medieval Lords | $12 |
| MegaFortress | $12 |
| *MegaTraveller:Zhodani | $6 |
| MegaTraveller 2 | $12 |
| MicroL BB Seattle I3 | $12 |
| Millenium | $6 |
| Mines of Titan | $9 |
| ML Baseball All Stars | $12 |
| ML Baseball Mangr's Ch | $12 |
| ML Football 2 | $12 |
| Ms PacMan | $6 |
| Never Mind | $9 |
| New Facilities Locator | $9 |
| NFL Chall Col Almn Tms | $9 |
| NFL Chall Pre Season 90 | $9 |
| NFL Chall 91 Pre Season | $9 |
| NFL Chall All Star Team | $9 |
| NFL Chall Dream Teams | $9 |
| NFL Proleague Football | $12 |
| NFL Video Football | $12 |
| Obliterator | $6 |
| Oligopoly | $9 |
| On Target | $9 |
| Operation Combat | $12 |
| Pac Man | $9 |
| Patriot | $12 |
| Perfct Genrl S Dk WW2 | $12 |
| Penthouse Jigsaw XXX | $12 |
| Pick'n Pile | $6 |
| Pictionary | $12 |
| *Playmaker Football | $12 |
| Power Politics WIN | $12 |
| Predator 2 | $9 |

## IBM BUDGET

| | |
|---|---|
| ProFtball Analyst 92 Ed | $9 |
| Punisher | $12 |
| Puzzle Gallery 1 | $9 |
| RBI 2 | $9 |
| Renegde Legion Intrcptr | $12 |
| Rodeo Games | $9 |
| Rotox | $9 |
| Rules of Engagement | $9 |
| S.C. Out | $12 |
| Scenery Collection Set A | $9 |
| Scenery Collection Set B | $9 |
| Scenery Colltn California | $9 |
| Scenery Colltn Grt Brtain | $9 |
| S D I | $6 |
| Sentinel Worlds 1 | $9 |
| Shadow Sorcerer | $9 |
| Siege | $12 |
| Sleeping Gods Lie | $6 |
| Snoopy's Fun Pack | $9 |
| Sorry | $12 |
| Space Vegetables | $9 |
| Sporting Triangle | $3 |
| Spot | $6 |
| *Star Legions | $9 |
| Storm Across Europe | $12 |
| Taking of Beverly Hills | $6 |
| Teenage MNT Man Miss | $12 |
| Teenage Mut Ninja Turtls | $9 |
| *Tegel's Mercenaries | $9 |
| The Tinies | $12 |
| Terran Envoy | $9 |
| Tesserae WIN | $12 |
| Test Drive 2 | $12 |
| Test Drive 2:Euro Chall | $6 |
| Test Drive 3:Road & Car | $9 |
| Thunderhawk | $6 |

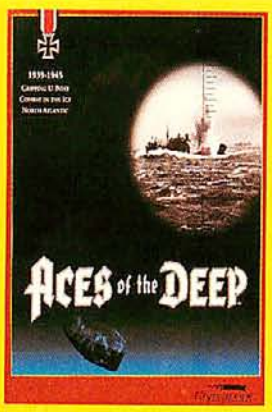
Visa/MC Accepted. Checks Held 4 Weeks. Money Orders same as cash. COD $8. Defectives replaced with same product. Most items shipped same day. Shipping times may vary. Price/availability may change. All sales final. Call for details.

**OVERNIGHT SHIPPING** in US $4 per order. Mail to Canada, PR, HI, AK, APO, FPO $4 per order. 4-8 day Worldwide shipping $6 per item. Handling $2 per shipment.

# FREE GAME OFFER*




**'7th GUEST: 11th HOUR'** Sequel to 7th Guest except the stakes are higher, the puzzles more clever and the return visit even more unsettling. Solve puzzles and investigate clues that take you through Stauf's haunted house with movie-like plot twists, special effects and music soundtrack. **CD$54**




**'ACES OF THE DEEP'** Between September 1939 and May 1945, Germany launched over 1,000 U-boats into combat against the Allies. Dive deep to avoid attacks and measure your success in tonage as you take command in the most realistic and advanced WWII German U-boat simulation created. **$39**




**'MEGA LO MANIA'** Battle three ruthless adversaries for supreme control of the planet. Begin your quest at the dawn of time, go through the present and finally fight in the distant future. Direct your followers to build castles, mines, and laboratories. Also invent, develop and manufacture advanced weapons. **$19**

## *FREE GAME OFFER

Spend the specified amount on any in stock IBM software and choose a free IBM game from the corresponding list below. Offer subject to change or cancellation without notice. Valid from June 1st through July 31st or while supplies last.

### SPEND $60 GET

Playmaker Football Combo, Cardinal of Kremlin 3.5, Darkhall 3.5, Trump Castle 2 Data Disk 1 or 2 3.5 or 5.25, Gunship 5.25, Pirates 5.25, Star Legions 5.25, Magic Candle 2 5.25, MacArthurs War 5.25, Crime Does Not Pay 5.25, Warlords 5.25, X-Men 5.25

### SPEND $100 GET

Airborne Ranger 5.25, Tegel's Mercenaries 5.25, Command HQ 5.25, F15 SE 2 5.25, M1 Tank Platoon 3.5, Megatraveller Zhodani 5.25, Red Storm Rising 3.5, Battles of Destiny 3.5

## IBM BUDGET

| | |
|---|---|
| Tie Break Tennis | $9 |
| Tony LRss Classic Stad | $12 |
| Tony LaRussa BB '90 | $12 |
| Tony LaRussa BB '91 | $12 |
| Tony LaRussa Bsball | $9 |
| Top Gun Danger Zone | $12 |
| Treasres Savage Frontr | $9 |
| *Trump Cast 2 DD 1 | $4 |
| *Trump Cast 2 DD 2 | $4 |
| Turn-n-Burn | $9 |
| Typhoon of Steel | $12 |
| UMS 2 Planet Editor | $12 |
| Uninvited | $6 |
| Under Fire | $12 |
| Vaxine | $12 |
| Video Poker Villa Crespo | $9 |
| Visions of Aftermath | $12 |
| V Victory Markt Garden | $12 |
| V Victory: Velikye Luki | $12 |
| Wacky Funster | $9 |
| War in the Gulf | $9 |
| War of the Lance | $9 |
| *Warlords | $12 |
| Weaver Tm/Playr Stat 89 | $3 |
| Wheel of Fortune 1 | $6 |
| Wheel of Fortune 2 | $6 |
| Wheel of Fortune 3 | $9 |
| Wrath of the Demon | $12 |
| Xiphos | $9 |

## 3DO

| | |
|---|---|
| 3DO System | $499 |
| 3DO Gun | $36 |
| 11th Hour | $59 |

## 3DO

| | |
|---|---|
| Aces over Europe | $52 |
| Air Warrior | $52 |
| Alone in the Dark | $52 |
| Battle Chess | $46 |
| Conquered Kingdoms | $52 |
| Demolition Man | $56 |
| DinoBlazer | $56 |
| Doom | $52 |
| Dragon Tales | $46 |
| Dragon's Lair | $49 |
| Dragons Lair 2:Tm Warp | $52 |
| Escape Monster Manor | $52 |
| Gridders | $52 |
| HUMANS | $49 |
| Horde | $52 |
| Incredible Machine | $52 |
| Intelliplay Football | $52 |
| Jurassic Park | $52 |
| Kingdom:Far Reaches | $52 |
| Lemmings | $49 |
| Lost Files Sherlck Holms | $49 |
| Mad Dog McCree | $52 |
| Mad Dog McCree 2 | $52 |
| Madden Football | $49 |
| Megarace | $44 |
| Microcosm | $52 |
| Night Trap | $52 |
| Oceans Below | $44 |
| Orion Off Road | $52 |
| Out of this World | $49 |
| PGA Tour GA | $52 |
| Pataank | $52 |
| Red Baron | $52 |
| Rise of the Robots | $49 |
| Road Rash | $56 |
| Robinson's Requiem | $52 |

## 3DO

| | |
|---|---|
| Sewer Shark | $52 |
| Shadow Caster | $52 |
| Shock Wave | $56 |
| Shuttle | $46 |
| Space Ace | $52 |
| Space Pirates | $52 |
| Star Control 2 | $52 |
| Star Trek Next Generth | $54 |
| Star Wars Chess | $52 |
| Stellar 7 | $49 |
| Syndicate | $52 |
| Theme Park | $52 |
| Total Eclipse | $52 |
| Troddlers | $49 |
| Twisted | $49 |
| Way of the Warrior | $52 |
| Who Shot Johnny Rock | $49 |
| Wing Commander | $49 |
| WorldBuilders, Inc | $52 |

## AMIGA

| | |
|---|---|
| Fast Break | $3 |
| Heatwave | $3 |
| Jack Nicklaus Course 1 | $6 |
| Test Drive2:Muscle Cars | $3 |

## NEO GEO

| | |
|---|---|
| 2020 Super Baseball | $119 |
| 3 Count Bout | $189 |
| Alpha Mission 2 | $129 |
| Andros Dunos | $199 |
| Art of Fighting | $199 |

## NEO GEO

| | |
|---|---|
| Art of Fighting 2 | $199 |
| Baseball Stars Pro | $99 |
| Baseball Stars Pro 2 | $149 |
| Blues Journey | $129 |
| Burning Fight | $149 |
| Crossed Swords | $129 |
| Cyber Lip | $129 |
| Fatal Fury | $99 |
| Fatal Fury 2 | $199 |
| Fatal Fury Special | $199 |
| Football Frenzy | $129 |
| Ghost Pilots | $129 |
| King of the Monsters | $99 |
| King of the Monsters 2 | $169 |
| Last Resort | $149 |
| League Bowling | $129 |
| Magician Lord | $99 |
| Mutation Nation | $149 |
| Nam 1975 | $99 |
| Neo Geo Control Pad | $46 |
| Neo Geo Gold System | $569 |
| Ninja Combat | $99 |
| Riding Hero | $129 |
| Robo Army | $99 |
| Samurai Shodown | $199 |
| Sengoku | $129 |
| Sengoku 2 | $199 |
| Soccer Brawl | $129 |
| SpinMaster | $199 |
| Super 8 Man | $99 |
| Super Sideks Soccer | $169 |
| Super Sideks Soccer 2 | $199 |
| Super Spy | $99 |
| Survivor | $199 |
| Thrash Rally | $129 |
| Top Hunter | $199 |

## NEO GEO

| | |
|---|---|
| Top Players Golf | $119 |
| View Point | $199 |
| WindJammers | $199 |
| World Heroes 2 | $199 |

## JAGUAR

| | |
|---|---|
| Jaguar System | $249 |
| Jaguar CD System | $299 |
| Jaguar Controller | $24 |
| Alien Vs Predator | $58 |
| Barkley Basketball | $46 |
| Baseball | $54 |
| Basketball | $54 |
| Battle Wheels | $54 |
| Battle Zone 2000 | $54 |
| Brett Hull Hockey | $46 |
| Brutal Sports Football | $56 |
| Bubsy | $46 |
| Car Wars | $49 |
| Castle Wolfenstein 3D | $54 |
| Checkered Flag 2 | $58 |
| Club Drive | $52 |
| Crescent Galaxy | $44 |
| Dune | $54 |
| Dungeon Depths | $54 |
| European Soccer Chall | $56 |
| Evolution:Dino Dudes | $44 |
| Hardball 3 | $46 |
| Hosenose & Booger | $54 |
| Jack Nicklaus Golf | $46 |
| Jaguar Formula 1 Racg | $54 |
| Kasumi Ninja | $54 |
| NFL Football | $54 |
| Raiden | $44 |
| Star Raiders 2000 | $52 |
| Tempest 2000 | $52 |
| Tiny Toon Adventures | $52 |
| Ultimate Brain Games | $56 |
| Ultra Vortex | $54 |

## MACINTOSH

| | |
|---|---|
| Harpoon Scenario Editor | $14 |
| Jack Nicklaus CrDk 1-3ea | $6 |
| Jack Nicklaus Crs Dk 5 | $6 |
| Lexi Cross | $19 |
| Omar Sharif Bridge Dlx | $19 |
| Out of this World | $19 |
| Shadowgate | $19 |
| Sherlock Holmes CnDt 2 | $19 |
| Sim Ant | $19 |
| Test Drive 2: CA Challng | $6 |
| Test Drive 2: Super Cars | $6 |
| WordTris | $19 |

## TURBO GRAFX

| | |
|---|---|
| Addams Family CD | $19 |
| Ballistix | $14 |
| Bonk's Adventure | $19 |
| Boxyboy | $9 |
| Bravoman | $14 |
| Buster Brothers CD | $19 |
| Cadash | $19 |
| Camp California CD | $19 |
| Chase HQ | $42 |
| Darkwing Duck | $19 |
| Dead Moon | $14 |
| Falcon | $19 |
| Final Zone 2 CD | $19 |
| Ghost Manor | $19 |
| Impossamole | $19 |

## TURBO GRAFX

| | |
|---|---|
| JB Harold CD | $29 |
| Jack Nicklaus Golf | $14 |
| Jackie C. Actn Kung Fu | $19 |
| Lords of Thunder CD | $44 |
| Monster Lair CD | $29 |
| Parasol Stars | $14 |
| Raiden | $29 |
| Riot Zone CD | $36 |
| Samurai Ghost | $19 |
| Shadow Beast CD | $36 |
| Soldier Blade | $19 |
| Somer Assault | $26 |
| Splash Lake CD | $14 |
| Turrican | $14 |
| Vasteel CD | $43 |
| Ys Book 1 & 2 CD | $36 |

## GAME GEAR

| | |
|---|---|
| GG System Sonic 2 | $129 |
| Aladdin GA | $32 |
| Andre Agassi Tennis | $29 |
| caesars Palace | $29 |
| Choplifter 3 | $32 |
| Cool SPOT | $29 |
| Desert Strike GA | $32 |
| Dolphin | $34 |
| Formula 1 GA | $32 |
| GP Rider | $27 |
| Incredible Hulk | $34 |
| Itchy & Scratchy | $32 |
| Jeopardy Sports Edition | $32 |
| Jungle Book | $32 |
| Jurassic Park | $36 |
| Klax | $14 |
| Majors: Pro Baseball | $34 |
| Marco's Magic Soccer | $42 |
| Monster Truck Wars | $32 |
| Mortal Kombat | $36 |
| Mortal Kombat 2 | $39 |
| Ms Pac Man | $28 |
| NBA Bball Dave Robnsn | $32 |
| NBA Jam Session | $38 |
| NFL Fball Joe Montana | $36 |
| Outrun:Europa | $32 |
| PGA Tour Golf GA | $32 |
| Pac Attack | $29 |
| Pinball Dreams | $32 |
| Poker Face Paul's Poker | $24 |
| Pokr Fac Paul's Solitaire | $24 |
| Prince of Persia | $24 |
| Psychic World | $14 |
| Ren & Stimpy Show | $32 |
| Scratch Golf | $38 |
| Side Pocket | $32 |
| Smash TV | $16 |
| Super Battle Tank GA | $32 |
| Super Battleship | $29 |
| Super Golf | $16 |
| Terminator | $18 |
| Trunski | $32 |
| Wheel of Fortune | $32 |
| World Cup USA | $32 |
| X Men | $36 |

## LYNX

| | |
|---|---|
| Lynx System | $89 |
| Alien Vs Predator | $44 |
| Battle Zone 2000 | $38 |
| Castle Wolfenstein 3D | $39 |
| Checkered Flag | $36 |
| Dracula | $44 |
| Eye of the Beholder | $44 |

# CHIPS&BITS

Call 800-699-4263 Fax 802-767-3382
Int'l 802-767-3033 Source 10073
PO Box 234 Dept 10073 Rochester, VT 05767

## GENESIS HARDWARE

| | |
|---|---|
| 4 Way Play Adaptor | $29 |
| 6 Button Arcde Powr Stk | $39 |
| 6 Button Control Pad | $19 |
| Cleanng Kit ELIMINATOR | $9 |
| F-16 Wirelss Cntrl Pads | $42 |
| Genesis Activator | $79 |
| Genesis CD Sys 2 CD | $229 |
| Genesis CDX System | $399 |
| Genesis System 2 core | $99 |
| Genesis Sys Sonic 2 | $129 |
| Genesis Team Player 2 | $32 |
| Mars 32X System | $149 |
| Mega Mouse | $32 |
| Power Plug | $34 |
| Remote Arcade Pad | $19 |
| Remote Arcade System | $36 |
| SG Program Pad 2 | $32 |
| Sega Steering Wheel | $129 |

## GEN ADVENTURE

| | |
|---|---|
| Addams Family | $44 |
| Advent Will Beamish CD | $42 |
| Aladdin | $46 |
| Alien Trilogy CD | $52 |
| Alien Vs Predator | $49 |
| Astrix & Grt Rescue GA | $49 |
| Batman Returns CD | $42 |
| Batman:Revnge of Jokr | $34 |
| Beavis & Butt-Head | $54 |
| Blades of Vengeance | $42 |
| Bubba & Stix GA | $48 |
| Bubble & Squeak GA | $42 |
| Bubsy 2 | $52 |
| Castle Wolfenstein 3D | $54 |
| Castlvnia Bloodlines GA | $44 |
| Chuck Rock 2 CD GA | $44 |
| Cliffhanger CD | $49 |
| Cool SPOT GA | $45 |
| Cosmic Spacehead | $39 |
| Demolition Man CD | $54 |
| DinoBlazer CD | $56 |
| Dolphin CD | $42 |
| Dracula Unleashed CD | $43 |
| Dragons Lair or CD | $49 |
| Dragons Lair 2 CD | $52 |
| Dune:Battle for Arrakis | $49 |
| Fido Dido | $46 |
| Fire Team Rogue | $59 |
| Flintstones | $39 |
| Golden Axe 3 | $49 |
| Goofy | $49 |
| Hook CD | $42 |
| Hurricanes | $52 |
| Impossible Mission | $54 |
| Incredible Hulk | $54 |
| Incredible Toons CD | $49 |
| Indiana Jones CD | $39 |
| Indy Jones Ft Atlntis CD | $44 |
| Interplanetary Lizards | $49 |
| Itchy & Scratchy | $43 |
| James Pond 3 | $29 |
| Joe & Mac | $46 |
| Jungle Book | $56 |
| Jurassic Park CD GA | $49 |
| Justice League | $56 |
| Lawnmowr Man or CD | $52 |
| Lion King | $54 |
| Mad Dog McCree CD | $49 |
| Mansn Hiddn Sls CD GA | $49 |
| Matrix Runr Virt Reality | $49 |
| McDonald Land | $42 |
| Mickeys Magical Quest | $54 |
| Out of World or CD GA | $49 |
| Pirates of Dark Watr GA | $54 |

## GEN ADVENTURE

| | |
|---|---|
| Pitfall | $52 |
| Popeye | $46 |
| Prince of Persia MA-13 | $49 |
| Puggsy CD | $49 |
| Radical Rex | $49 |
| Rebl Assault 3D CD GA | $46 |
| Ren & Stimpy Show | $46 |
| Return to Zork CD | $49 |
| Roar of the Beast | $46 |
| RoboCop 3 | $44 |
| Rocket Knight Advent | $39 |
| Rocky & Bullwinkle | $46 |
| Rolling Thunder 3 | $44 |
| Secret Monky Island CD | $42 |
| Shadow of Beast 2 CD | $52 |
| Shinobi 3 | $42 |
| Socks the Cat | $46 |
| Sonic Hedgehog CD | $42 |
| Sonic Hedgehog 3 GA | $54 |
| Space Ace CD | $52 |
| Space Pirates CD | $49 |
| Spiderman & X-Men | $42 |
| Spidrman vs Kingpin CD | $36 |
| Splatterhouse 3 | $49 |
| Star Trek Next Gen GA | $49 |
| Stone Protectors | $46 |
| Strider 2 | $39 |
| Sunset Riders | $39 |
| Switch CD | $49 |
| Sylvester & Tweety | $54 |
| T2:Judgement Day | $39 |
| Terminator CD GA | $49 |
| Time Killers | $56 |
| Time Trax | $52 |
| TimeGal CD | $39 |
| TinHead | $49 |
| Tiny Toon Adventures | $44 |
| Tom & Jerry | $49 |
| Vikings GA | $39 |
| Wonder Boy/MonstrWrld | $39 |
| X MEN | $44 |
| Young Indy Jones Chron | $43 |
| Zero Kamikaze Squirrel | $52 |

## GEN KICK & PUNCH

| | |
|---|---|
| Best of the Best | $49 |
| Brutal | $49 |
| Clayfighter | $52 |
| Double Dragon 5 | $56 |
| Dragon | $56 |
| Eternal Champns MA-13 | $56 |
| Fatal Fury 2 MA-13 | $56 |
| Juggernauts:New Breed | $56 |
| King of the Monsters 2 | $54 |
| Kung Fu:Legend Contns | $56 |
| Matrix Prime | $56 |
| Mazin Saga | $39 |
| Mortal Kombt CD MA-17 | $46 |
| Mortal Kombat 2 | $69 |
| Ninja Warriors CD | $49 |
| Power Instinct | $52 |
| Rise of the Robots CD | $46 |
| Streets of Rage 3 | $59 |
| Super Street Fighter 2 | $69 |
| TMNT:Tournam Fighters | $56 |
| World Heroes 2 | $56 |

## GEN ROLE PLAYING

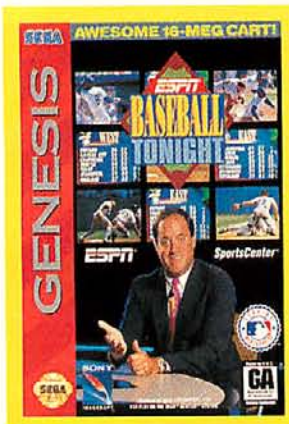
| | |
|---|---|
| Battletech | $54 |
| Buck Rogers | $39 |
| Dark Wizard CD | $43 |
| Dominus | $49 |




**'STAR TREK: THE NEXT GENERATION'** The future of the Federation is in your hands!!! The USS Enterprise races an evil Romulan force for control of a law and order device. Probe hundreds of strange worlds and alien vessels with the ship's sensors. Join forces with the Enterprise to solve the "Trinity Test". **$49**




**'LORD OF THE RINGS'** Prepare yourself to embark on an epic adventure to destroy the ring that has the power to end Middle Earth. Characters move in thousands of frames of fluid animation with real-time combat. **$54**




**'ESPN BASEBALL TONIGHT'** Step up to the plate with ESPN Baseball, the most realistic fast-paced baseball game ever created. You'll feel like you're in the center of the action during a live ESPN broadcast. Features over 10,000 frames of digitized player animation and pre- and post-game reports and highlights. **$54**




**'VIRTUA RACING'** The incredible challenge of Formula 1 racing just went 3D! Sega's new SVP chip makes possible a thrilling new vision of auto racing. Join the pack of world-caliber drivers wheel-to-wheel in the ultimate F-1 racing game. Features three tracks, race against 15 cars, four different playable views, and real 3D effects. **$79**

## GEN ROLE PLAYING

| | |
|---|---|
| Dungn Mstr Skull Kp CD | $44 |
| Eye of the Beholder CD | $56 |
| Genghis Khan 2 | $59 |
| Heimdall CD GA | $44 |
| Lord of the Rings | $59 |
| Lunar 2 CD | $52 |
| Might & Magic 3 | $59 |
| Phantasy Star 4 | $69 |
| Powermonger CD | $43 |
| Revngrs Vengeance CD | $44 |
| Romance 3 Kingdoms 2 | $56 |
| Shadow Run MA-13 | $49 |
| Shining Force 2 | $54 |
| Star Quest | $49 |
| Technoclash | $42 |
| Treasures of Isis CD | $49 |
| Vampire Killer | $52 |
| Vay CD | $49 |

## GENESIS SHOOTERS

| | |
|---|---|
| Blaster Master 2 | $36 |
| Crime Patrol CD | $49 |
| Drug Wars CD | $49 |
| Exo Squad | $56 |
| Gauntlet 4 | $42 |
| Lethl Enfrcr w/gn MA-17 | $66 |
| Lthl Enf w/gn CD MA-17 | $59 |
| Lode Runner CD | $46 |
| Mad Dog McCree 2 CD | $49 |
| Mega Turrican | $36 |
| Microcosm CD MA-13 | $49 |
| Nuclear Rsh Virt Reality | $49 |
| Robo Aleste CD | $36 |
| Silpheed CD | $43 |

## GENESIS SHOOTERS

| | |
|---|---|
| Skeleton Krew | $46 |
| Soldier of Fortune GA | $52 |
| Soul Star CD | $44 |
| Subterrania GA | $49 |
| Thrd Wld War CD MA-13 | $39 |
| Total Carnage CD | $49 |
| View Point | $54 |

## GEN SIMULATIONS

| | |
|---|---|
| AH-3 Firehawk CD GA | $44 |
| Al Unser Jr Racing | $46 |
| Battle Corps CD | $44 |
| Choplifter 3 | $49 |
| Combat Cars | $39 |
| F117 Night Storm GA | $34 |
| Formula 1 GP CD GA | $49 |
| Harrier Assault CD | $49 |
| Jaguar Racing CD | $42 |
| Megarace CD | $44 |
| Monster Truck Wars | $49 |
| Nigel Mansell WCR | $46 |
| Outrunners | $52 |
| Powr Modler:Aircraft CD | $44 |
| Powr Modl:Euro Rcr CD | $44 |
| Rock & Roll Racing | $49 |
| SeaQuest DSV | $56 |
| Skitchin' MA-13 | $42 |
| Speed Racer | $49 |
| Super Battletank 2 CD | $44 |
| Tomcat Alley CD MA-13 | $49 |
| Top Gear 2 | $46 |
| Virtua Racing GA | $79 |
| Wing Commander 2 | $56 |
| World Champ Rally CD | $44 |

## GENESIS SPORTS

| | |
|---|---|
| Andre Agassi Tennis | $39 |
| Barkley Basketball GA | $49 |
| Brett Hull Hockey | $54 |
| Brutal Football | $49 |
| Championship Pool | $46 |
| College Football 94 | $52 |
| Double Dribble | $52 |
| ESPN Baseball CD GA | $49 |
| ESPN Football CD | $49 |
| FIFA Internatnl Scr GA | $52 |
| Greatest Hywght MA-13 | $49 |
| Hardball 4 | $56 |
| Jamm It | $56 |
| Kick Off 3 | $52 |
| Links Pro Golf CD | $56 |
| MLBPA Baseball | $52 |
| MLBPA Grnd Slm Bsball | $54 |
| Marco's Magic Soccer | $46 |
| Mutant Lg Hcky MA-13 | $44 |
| NBA Basketball CD | $49 |
| NBA Jam Session GA | $54 |
| NBA Showdown GA | $52 |
| NHL Hockey 94 CD | $49 |
| PGA Tour 2 GA | $46 |
| PGA Tour 3:Europe GA | $49 |
| Pebble Beach Golf GA | $44 |
| Pele Soccer 2 | $49 |
| RBI 94 GA | $52 |
| RBI Baseball 4 CD | $49 |
| Tecmo Baseball | $54 |
| Tecmo Hockey | $54 |
| Tecmo Super Bowl GA | $44 |
| Unnecessary Roughnss | $56 |
| Vitale Basketball | $52 |
| WCW Super Brawl | $49 |
| WWFSW:Rg Cg CD GA | $42 |

## GENESIS SPORTS

| | |
|---|---|
| Wimbledon Tennis GA | $39 |
| Winter Olympics | $54 |
| World Chmpnshp Scr 2 | $46 |
| World Cup USA CD | $46 |

## GENESIS STRATEGY

| | |
|---|---|
| Aero Biz Supersonic | $59 |
| Art Alive | $29 |
| Caesars Palace | $49 |
| Cascade | $49 |
| Clue | $44 |
| Columns 3 GA | $46 |
| Crue Ball | $36 |
| Dragons Fury 2 MA-13 | $46 |
| Dune CD GA | $49 |
| Family Feud | $49 |
| General Chaos | $34 |
| HUMANS | $36 |
| Jeopardy 2 | $49 |
| Jeopardy CD | $49 |
| Liberty or Death GA | $59 |
| Nobunaga's Ambitn GA | $49 |
| Operation Europe | $62 |
| Risk CD | $52 |
| Romance 3 Kingdoms 3 | $59 |
| Shanghaii 2 GA | $44 |
| Sonic Spinball | $43 |
| Star Wars Chess CD | $46 |
| Super Battleship | $43 |
| Virtual Pinball | $39 |
| Warrior of Rome 2 | $54 |
| Warrior of Rome 3 CD | $54 |
| Wheel of Fortune CD | $52 |
| Wheel of Fortune 2 | $49 |

Visa/MC Accepted. Checks Held 4 Weeks. Money Orders same as cash. COD $8. Defectives replaced with same product. Most items shipped same day. Shipping times may vary. Price/availability may change. All sales final. Call for details.

**OVERNIGHT SHIPPING** in US $4 per order. Mail to Canada, PR, HI, AK, APO, FPO $4 per order. 4-8 day Worldwide shipping $6 per item. Handling $2 per shipment.

# FREE GAME OFFER*




**'SUPER STREET FIGHTER II'** You take control of the original 12 street fighters with all new looks and special techniques. Also four new fierce challengers. Offers 1 or 2 player, and upgraded special moves for the 12 classic warriors. **$69**




**'STAR WARS REBEL ASSAULT'** by JVC lets you take control of a T16 Skyhopper, an X-Wing starfighter and a A-Wing starfighter. After being a trainee, pilots defend Tatooine against Imperial attack. Features 3D graphics, full motion video, complete musical score and over a dozen levels. Has a GA rating. **CD $46**




**'NBA JAM'**, the ultimate sports, arcade game is now available for home play. From Tomahawk jams to wild full-court shots, this game is packed with incredibly detailed, digitized graphics of 54 of the league's hottest players and the amazing moves, lightning-fast steals, in-your-face rejections and ultra slam-dunks. **$54**

## *FREE GAME OFFER

Buy 3 in stock Super Nintendo games and choose a 4th game from the list below. Offer subject to change or cancelation without notice. Valid from May 31st through August 31st or while supplies last.

Bulls V Blazers (SNES), Gunforce (SNES), Kendo Rage (SNES), Super Play Action Football (SNES), Hook (SNES), Battle Blaze (SNES).

## SNES HARDWARE

| | |
|---|---|
| Championship Joystick | $56 |
| Comp Cpcm FP Stk SF2 | $59 |
| Lethal Enforcers Gun | $18 |
| Power Plug | $34 |
| Pro Action Replay | $79 |
| Program Pad | $32 |
| Super Link (5 Playr Link) | $29 |
| Super Multitap | $32 |
| Super Nintendo Systm | $139 |
| Super Scope | $54 |
| Wireless Control Pad | $42 |

## SNES ADVENTURE

| | |
|---|---|
| ActRaiser 2 | $48 |
| Addams Family Values | $54 |
| Aero the Acrobat 2 | $52 |
| Aladdin | $54 |
| Alfred Chicken | $49 |
| Alien vs Predator | $46 |
| Aliens 3 | $49 |
| American Tail:Feival West | $49 |
| Arcus Odyssey | $54 |
| Battle Toads | $35 |
| Beauty & the Beast | $56 |
| Beavis & Butt-Head | $54 |
| Bebe's Kids | $46 |
| Biker Mice | $52 |
| BlackThorne | $52 |
| Bonk's Adventure | $54 |
| Bubsy 2 | $56 |
| Bugs Buny:Rabt Rmpge | $56 |
| Castle Wolfenstein 3D | $54 |
| Chuck Rock 2 | $49 |
| Claymates | $49 |

## SNES ADVENTURE

| | |
|---|---|
| Cliffhanger | $52 |
| Cool SPOT | $44 |
| Crazy Chase | $52 |
| Death of Superman | $59 |
| Demolition Man | $56 |
| Dracula | $46 |
| Dragons Lair | $36 |
| Eek the Cat | $52 |
| Fire Team Rogue | $59 |
| Flintstones Movie | $54 |
| Generation 2 | $54 |
| Ghetto Blaster | $49 |
| Home Improvement | $52 |
| Hurricanes | $52 |
| Impossible Mission | $56 |
| Inspector Gadget | $46 |
| James Bond Jr | $32 |
| Jetsons | $49 |
| Joe & Mac 1 or 2 | $49 |
| Jungle Book | $56 |
| Justice League | $59 |
| Knights of Round Table | $56 |
| Lawnmower Man | $42 |
| Legend | $49 |
| Legend of Mystcl Ninja 2 | $56 |
| Lion King | $54 |
| Magic Boy | $46 |
| Mario & Wario | $54 |
| Mega Man X | $56 |
| Metal Combat | $48 |
| Out of this World | $44 |
| Pirates of Dark Water | $52 |
| Pocky & Rocky 2 | $52 |
| Porky Pig | $54 |
| Power Rangers | $59 |
| QBert 3 | $29 |

## SNES ADVENTURE

| | |
|---|---|
| Radical Rex | $49 |
| Ren & Stimpy Show 2 | $52 |
| Robocop Vs Terminator | $56 |
| Rocko's Modern Life | $49 |
| S.O.S. | $49 |
| Scooby Doo | $54 |
| Simpsons:Krustys Hse | $44 |
| Sky Blazer | $52 |
| Space Ace | $52 |
| Spiderman & X-Men | $49 |
| Star Trek:Deep Space 9 | $59 |
| Super Adventure Islnd 2 | $52 |
| Super Empire Strks Bck | $55 |
| Super Godzilla | $54 |
| Super Return of the Jedi | $59 |
| T2:Arcade Game | $49 |
| Tales of Spike McFang | $56 |
| TazMania | $46 |
| Terminator | $44 |
| Time Killers | $56 |
| Time Trax | $52 |
| Tom & Jrry:Chase is On | $56 |
| Untouchables | $52 |
| Virtual Bart | $57 |
| Wolf Child | $46 |
| Young Merlin | $56 |
| Zombies Ate Neighbor | $49 |
| Zool | $49 |

## SNES KICK & PUNCH

| | |
|---|---|
| Akira | $52 |
| Battle Blaze | $36 |
| BattleToads/Dbl Dragon | $49 |
| Brawl Brothers | $49 |

## SNES KICK & PUNCH

| | |
|---|---|
| Clayfighter | $56 |
| Double Dragon 5 | $54 |
| Dragon | $56 |
| Fatal Fury 2 | $59 |
| Fighters History | $58 |
| Final Fight 2 | $49 |
| King of Dragons | $59 |
| King of the Monsters 2 | $54 |
| Kung Fu:Legend Contins | $56 |
| Mortal Kombat 2 | $69 |
| Ninja Warriors | $56 |
| Peace Keepers | $54 |
| Power Instinct | $54 |
| Ranma 1/2:Hard Battle | $54 |
| Samurai Showdown | $59 |
| Shadow of the Ninja 2 | $54 |
| Streetfighter 2 Turbo Ed | $59 |
| Super Combatribes | $49 |
| Super Street Fighter 2 | $69 |
| Survival Arts | $54 |
| TMNT:Tournam Fighters | $56 |
| WCW Super Brawl | $49 |
| World Heroes 2 | $59 |

## SNES ROLE PLAYING

| | |
|---|---|
| Brain Lord | $59 |
| Curse of Azure Bonds | $64 |
| Dragon Warrior 5 | $62 |
| DragonView | $59 |
| Equinox | $52 |
| Eye of the Beholder 2 | $69 |
| Final Fantasy 3 | $64 |
| Gaia Fantasy | $59 |
| Genghis Khan 2 | $56 |

## SNES ROLE PLAYING

| | |
|---|---|
| Golden Empire | $59 |
| Inindo | $56 |
| King Arthur/Knights Jstc | $59 |
| Lord of the Rings | $54 |
| Lufia 2 | $56 |
| Might & Magic 3 | $59 |
| Obitus | $58 |
| Runes of Virtue | $59 |
| Secret of Mana | $59 |
| Shadow Run | $56 |
| Ultima 6 | $59 |
| Ultima 7:Black Gate | $64 |
| Uncharted Waters | $59 |
| Unchartd Watrs Nw Horz | $59 |
| Warrior of Rome 3 | $52 |

## SNES SHOOTERS

| | |
|---|---|
| Contra 3 | $46 |
| Cybernator | $39 |
| Exo Squad | $56 |
| Fire Striker | $52 |
| Galactic Defenders | $56 |
| Kaboom | $44 |
| Lethal Enf w/gun MA-17 | $64 |
| Strike Gunner | $44 |
| Super Metroid | $56 |
| Super Sonic Blastman 2 | $54 |
| Total Carnage | $49 |
| View Point | $54 |
| Wild Guns | $54 |

## SNES SIMULATIONS

| | |
|---|---|
| 8 Hours | $52 |
| Aero Fighters | $52 |
| Air Strike Patrol | $52 |
| Al Unser Jr Racing | $52 |
| Battle Cars | $49 |
| Choplifter 3 | $44 |
| F-1 Pole Position | $52 |
| Freeway Fly Boys | $49 |
| Jaguar Racing | $49 |
| Lamborghini Amer Chall | $46 |
| Mario Andretti Racing | $52 |
| Mechwarrior | $49 |
| Monster Truck Wars | $58 |
| Nigel Mansell WCR | $46 |
| Pilot Wings | $42 |
| River Raid | $46 |
| Rock & Roll Racing | $49 |
| Spectre VR | $52 |
| Speed Racer | $52 |
| Star Fox | $46 |
| Star Trek:Starfleet Acad | $56 |
| Super Battle Tank 2 | $49 |
| Super F1 2 | $58 |
| Super Off Road:Baja | $49 |
| Top Gear 2 | $49 |
| Transformers 2 | $56 |
| Turn & Brn:No Fly Zone | $52 |
| Wild Trax | $56 |
| Wing Commd Secrt Mis | $49 |
| World Champ Rally | $56 |

## SNES SPORTS

| | |
|---|---|
| Barkley Basketball | $56 |
| Baseball Stars 2 | $54 |
| Bill Walsh College Fball | $44 |
| Brett Hull Hockey | $49 |
| Brett Hull Hockey 95 | $59 |
| Championship Pool | $49 |

## SNES SPORTS

| | |
|---|---|
| Champnship Wrestling | $54 |
| Diamond Challenge | $52 |
| ESPN Baseball | $54 |
| FIFA Internatnal Soccer | $52 |
| Football Fury | $36 |
| Hardball 3 | $56 |
| International Tennis Tour | $44 |
| Jamm It | $56 |
| Kick Off 3 | $49 |
| Kirby's Tee Shot | $52 |
| MLBPA Grand Slam BB | $62 |
| Madden Football 94 | $52 |
| Mega Man Soccer | $56 |
| NBA Jam Session | $62 |
| NBA Showdown | $54 |
| NFL Team Heroes | $54 |
| NHL Hockey 94 | $49 |
| NHL Stanley Cup | $42 |
| Pele Soccer | $52 |
| Power League Baseball | $52 |
| Power Pro Baseball | $52 |
| Pro Sport Hockey | $54 |
| RappBall | $49 |
| Riddick Bowe Boxing | $52 |
| Slam Masters | $59 |
| Soccer Shootout | $56 |
| Super Bases Loaded 2 | $59 |
| Super Goal! 2 | $54 |
| Tecmo Baseball | $56 |
| Tecmo Hockey | $56 |
| Tecmo Super NBA Bball | $54 |
| Tiger Mask Wrestling | $56 |
| Troy Aikman Football | $62 |
| Virtual Soccer | $49 |
| WWFSW2:Royal Rmble | $59 |
| Winter Extreme | $54 |
| Winter Olympics | $54 |
| World Soccer 94 | $46 |
| Zoo Ball | $54 |

## SNES STRATEGY

| | |
|---|---|
| Aero Biz Supersonic | $59 |
| Chessmaster | $49 |
| Clue | $46 |
| Cyber Slider | $49 |
| Fun N Games | $52 |
| Jeopardy 2 (Deluxe) | $52 |
| Jeopardy Sports Edition | $52 |
| Lemmings 2 | $54 |
| Liberty or Death | $59 |
| Loopz | $46 |
| Metal Marines | $59 |
| Nobunaga's Ambition | $49 |
| Operation Europe | $62 |
| Pac Man 2 | $49 |
| Pinball Dreams | $49 |
| Risk | $52 |
| Romance 3 Kingdoms 3 | $59 |
| Shanghaii 2 | $44 |
| Sim Ant | $42 |
| SimCity | $46 |
| SimCity 2000 | $56 |
| SimEarth | $56 |
| Super Battleship | $44 |
| Super Bomberman 2 | $56 |
| Super Caesars Palace | $46 |
| Super Conflict | $49 |
| Super Solitaire | $43 |
| Utopia | $49 |
| Vegas Stakes | $46 |
| Wheel of Fortune 2 Dlx | $49 |
| Where Time Crmn SD | $54 |
| Wild Snake | $49 |
| Yoshi's Cookie | $46 |

# A Flood Of Realism



*Disciples of Steel Drowns in Details*

**by Petra Schlunk**

CGW EXPECTS ITS REVIEWERS TO FINISH THE GAME. UNFORTUNATELY, AFTER 50-PLUS HOURS OF PLAYING **Megasoft Entertainment**'s DISCIPLES OF STEEL, I'm not even close to finishing the game. So, this time, the editors made an exception. They would like to hear from anyone who's finished it, though, because this game is the most incredibly detailed role-playing game I've grappled with, also one of the most repetitive. For those who like big games and lots of combat, this may be a plus. For me, it was a minus.

DISCIPLES OF STEEL has a combat system similar to that of the AD&D gold box series and a heavily statistically-oriented character development system which is something of a cross between those in REALMS OF ARKANIA and DARKLANDS. The downside is that these features are embedded in a matrix of obsolete graphics, sound and movement capabilities.

**Disciples Of Steel**

**Price:** $59.95
**System:** IBM
**Requirements:** 386 or better, 2 MB RAM, 7 MB hard drive space, VGA, mouse; supports Sound Blaster and compatible sound cards
**Protection:** Documentation look-up
**Designers:** Megasoft Entertainment
**Publisher:** FormGen, Inc.
Scottsdale, AZ
(800) 263-2390




The ultimate objective is to defeat the evil that has beset the world of Lanathor. To perform this noble task, you must assemble a band of eight heroes and develop their skills through the completion of quests and the destruction of the many monsters that stand in your way. Eventually, you will build a large army of troops from captured villages (if you have successfully assassinated a lord or laid siege to a castle) or from friendly ones (if you have completed enough quests for the local lord). This army will be critical in defending your home village of Farnus from an attack by the "evil army" at the end of the game (over a year of game time). Don't expect to build this army in a reasonable amount of time, however. Fortunately, for those of us less militarily-inclined, DISCIPLES OF STEEL offers more than one way to successfully complete the game.

Before raising armies, you must assemble a party of worthy adventurers (disciples). Character generation in DISCIPLES OF STEEL proceeds along standard lines; you choose gender, race and class and then the computer "rolls" the character's statistics. Female characters have a lower strength potential than males, although they make up for this deficit with correspondingly higher values for intuition and charm. (It's okay, myths are important.) The most important thing to achieve during character generation is a balance between fighters, spellcasters and special classes in the starting party. You can make up for some initial mistakes in character selection because all characters are theoretically capable of learning *any* skill, from wearing armor to administering first aid or casting spells. The only exception is for the ability to repair armor and weapon,, a skill that is the exclusive province of the blacksmith.

Characters do not develop by levels in this game. Instead, as quests are successfully completed and as battles are won, characters will earn experience points. These points can be allocated to raise skills and statistics. Skills that are "natural" to a character's class, such as armor skills for warriors, require fewer experience points to increase than those that are not natural to the character's class.

### GETTING YOUR BEARINGS

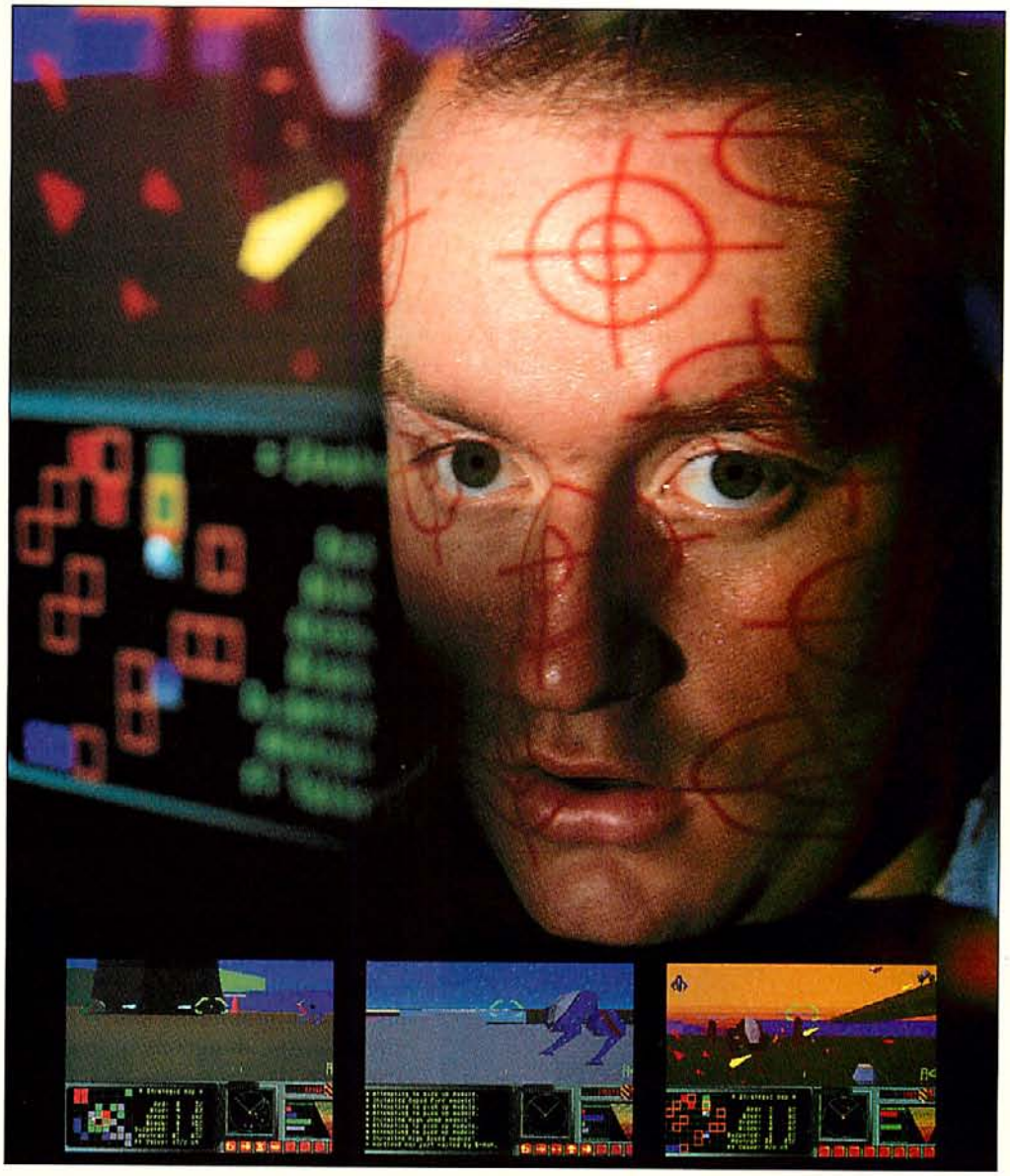
After you have created your party (or after you have discovered the "quick start" party), the soon-to-be-legendary Disciples of Steel will find themselves encamped outside the city of Farnus. Before breaking camp, the adventurers must agree on an appropriate battle formation (which can always be changed). You may also alter the composition of the party and rest your characters while camping. Resting is used to recoup hit points and spell points and to heal injuries of various types. Spell points and health will also recover with time as you wander, while your blacksmith is repairing the party's weapons, etc.

Finally, your eager disciples are ready to begin their grand adventure! Well, maybe not *quite* yet. First, you have to become familiar with the game's interface. Although almost every command can be accomplished via point and click, it requires a considerable amount of experimentation to learn *how* to access some of the menus and options. The sparse documentation is of little help. In the interests of realism, there are a huge number of menus and things that your party can do under different circumstances. These things include replenishing food and water supplies, examining and repairing items, healing wounds on different body parts, looking at pictures of the wounds (who needs good taste?) entering buildings, buying and selling items and stealing

# IN CYBERSTRIKE, ALL BEGINNERS WILL BE TREATED FAIRLY.

# AND THEN DESTROYED.

Beaten all the boxed games? Done the arcades to death? Try CyberStrike,™ the wild new multi-player game on GEnie where you hop into a two-legged CyberPod and battle it out against other real live humans for control of a virtual reality city. The action's fast and furious. But even if you're new in town, you won't get blown to Kingdom Come. Well, not right away at least. In fact, CyberStrike is so easy to learn, you might actually live long enough to waste someone else first. And best of all, it only costs three bucks an hour.* So strap yourself inside a Pod and come out shooting. You've got nothing to lose. Except your life.



GEnie®
multi-player games

## 100% ORGANIC OPPONENTS

**SIGN UP NOW:** 1. Set your modem for half duplex (local echo) at 300, 1200 or 2400 baud. 2. Dial toll free 1-800-638-8369. Upon connection, enter HHH 3. At the U # = prompt, enter JOINGENIE then press RETURN 4. At the key code prompt enter AKG423 5. Have a major credit card or your checking account number ready. For more information in the U.S. or Canada, call 1-800-638-9636.

*Here's the fine print. GEnie multi-player games and support services are $3.00 an hour in non-prime time: 6 p.m. to 8 a.m. local time Mon.-Fri., all day Sat. and Sun. and selected holidays. There's also an $8.95 monthly subscription fee. Each month, you'll get credit for up to four hours of non-prime time usage. Any surcharges incurred apply to all hourly usage, including your first four hours.

SIMUTRONICS




**WANDERLUST** Those hardy adventurers determined to complete DISCIPLES OF STEEL will spend countless hours traversing the rolling lands.

things. The trick is *finding* the menus; after that things will run fairly smoothly.

### THE HAZARDS OF HOOFING IT

*Now* your party is finally ready to begin its journeys. Except for traveling in dungeons (where the perspective is first person), you will have an overhead view as you make your way through the world. In case you get lost, you have access to a world map when you journey overland between towns and other noteworthy locales. Getting lost, however, is the least of your problems. As your party journeys through Lanathor, it is beset by savage monsters with the gleam of destruction in their beady little eyes. In typical FRP fashion, some of these encounters will be random, others predetermined. Unless the monsters have surprised the party, you may talk to them or try to run away before combat begins, with the latter course recommended for most encounters at the beginning of the game.

Combat in DISCIPLES OF STEEL is turn-based and takes place on an invisible grid from an overhead viewpoint. In each combat round, characters have a certain number of moves (determined by encumbrance and injuries) to allocate to fighting, casting spells, healing and moving around the battlefield. In addition to these standard combat options, you may surrender, pick up treasure, allocate experience points and look for hidden opponents. Unfortunately, there is no "quick fight" option so every round requires a new set of decisions.

Even at the "easy" setting, the monsters in DISCIPLES OF STEEL are quite formidable. It took my party several actual *days* of repeatedly fighting the easiest monsters in the game (to build experience) before it could successfully complete one of the earliest quests! Note that characters only gain experience points when they *actively* participate in combat—hanging out on the fringes does not count. Be sure that you allocate experience points to offensive and defensive skill areas early. Higher levels in these skills translate into more accurate, damaging and frequent attack capabilities as well as the ability to take more damage. Fighting battles is also the best way to collect useful weapons and armor and to make money from fallen opponents or from selling loot.




**TREASURE HUNT** While your party may discover a pot of gold, finding the end of the proverbial rainbow is elusive indeed.

### A NIGHT ON THE TOWN!

During their travels, your intrepid adventurers will thankfully encounter more than just monsters. Towns provide shops, taverns for food and gossip, inns for resting, guilds for storing items, temples for healing, and even dungeons. Boat shops allow you to purchase passage to and from islands or to buy boats, should you desire. Palaces are convenient places where leaders can be assassinated, besieged, or asked for quests (if you are in a less adversarial mood).

That many of the quests require visiting dungeons is hardly a surprise. What is a shock is that graphically and otherwise, the dungeons of DISCIPLES OF STEEL are a throwback. Movement in dungeons is limited to turning and walking straight ahead. Monsters remain invisible until you step on them, as do the numerous secret doors. In fact, the only way to find a secret door is to bump into them, hoping to walk right through them. At least the dungeons have an automapping feature, which shows the party, walls, stairwells and exits, making exploration of these areas a little less frustrating.

Worse, DISCIPLES OF STEEL can easily overburden a player with minutiae. Almost nothing happens automatically. The gamer must micro-manage everything: allocate every experience point, mold every character, heal every wound, fix every piece of armor and every weapon, and decide every move in combat, with nary a shortcut in sight. Although such attention to detail is laudable, the emphasis on "realism" is so overbearing that it detracts significantly from the enjoyment of the game. The player is also burdened with a busy interface, since every option imaginable must be accessible at any given time.




**BAD KARMA** Most character stats amount to little in terms of gameplay, as the data is immersed beneath a morass of minutiae.

Aside from the questionable design decisions, primitive graphics and lifeless sound effects mark this game as being very out of place in today's marketplace. Worst of all, the time investment to make a party strong enough to complete some of the easiest quests is simply tedious, and ruins whatever charm DISCIPLES may have possessed. Statistics are the best thing about this game, but only those looking for a "Stat-O-Matic" role-playing game will be satisfied with the assiduous attention to uninspiring detail in DISCIPLES OF STEEL.

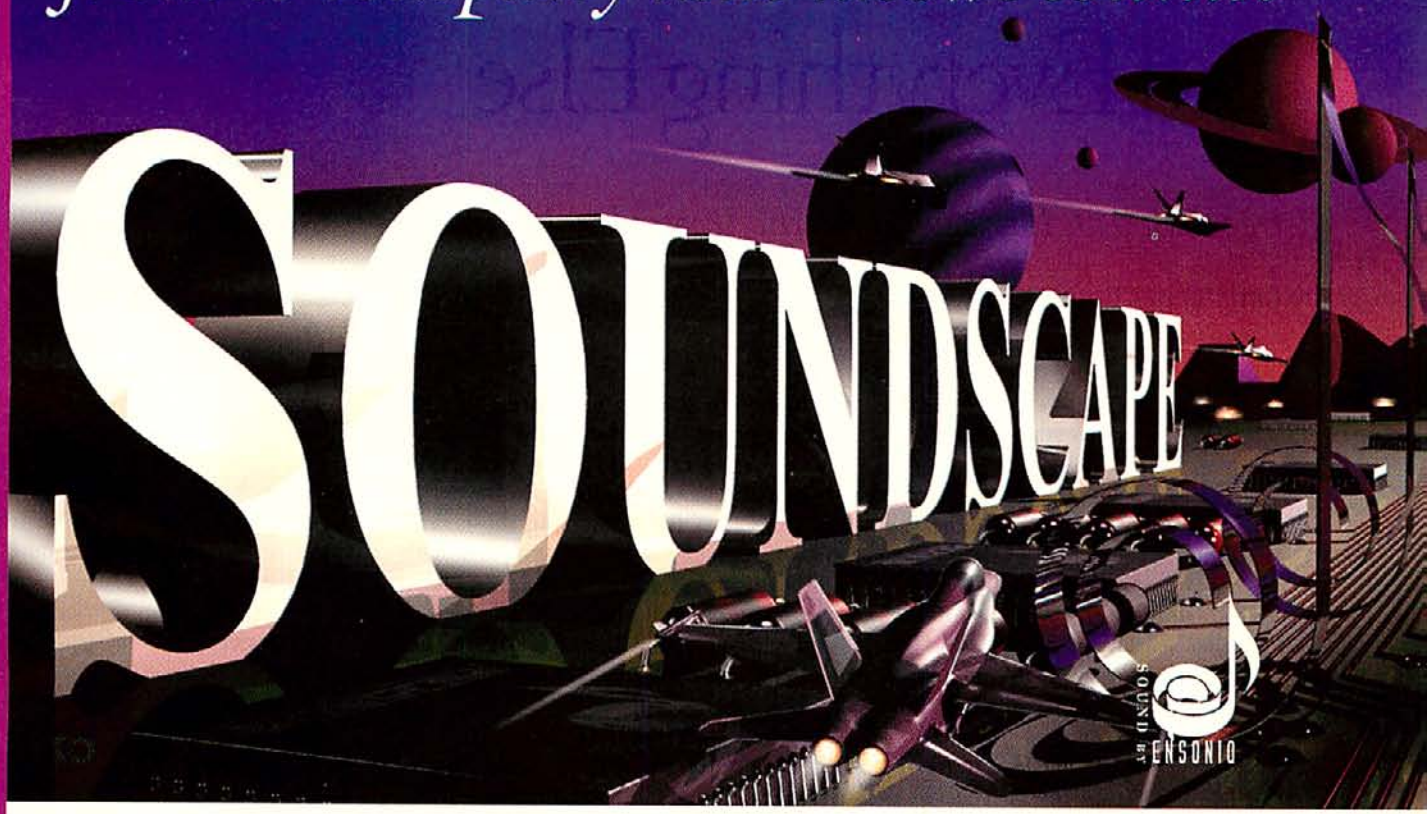
## DISCIPLES OF STEEL

½

**PROS** Fairly non-linear, character skills not limited by class

**CONS** Questionable "realism" over-emphasized, obsolete graphics and sound effects, few interactions with NPCs.

# *Finally.* A Sound Card from a company that knows sound!




*Soundscape™ by ENSONIQ. The first wavetable sound board that gives you professional 16-bit sound and compatibility with today's hottest game titles and multimedia applications – at a price you can afford.*

**ENSONIQ** is a leading manufacturer of high-quality synthesizers used by top recording artists. Now, the same wavetable technology that drives our $3,000 keyboards is available for your PC.

**Award-winning sounds.** Our commitment to sound is unequaled. With Soundscape, you'll hear sounds created by Grammy Award-winning musicians, renowned orchestral players, and top studio engineers.

**Maximum compatibility.** Great sound doesn't matter if your board won't work with your software, so we've made Soundscape compatible with virtually all PC standards. Whether you're in the game room, the classroom, or the boardroom, Soundscape will provide unrivaled sound quality for all your applications.

**Make the right choice.**

*Call 1-800-942-0096 for more information. Soundscape is now available at all Electronics Boutique and Waldensoftware locations.*




*For $279 (suggested retail) you get:*

- Genuine ENSONIQ wavetable synthesis
- 16-bit sound with 32 voice polyphony
- Supports the broadest range of games and multimedia standards, including: *SoundBlaster™*, AdLib™, MPU-401, MT-32, General MIDI, MPC Level 1 & 2, Windows™ 3.1, Windows Sound System™*
- No host CPU overhead; no TSR's
- 3 CD-ROM connectors for maximum flexibility
- 60-day no-nonsense refund, plus a three year limited hardware warranty

ENSONIQ™

LEADING THE WORLD IN SOUND INNOVATION

* With the exception of the few titles that use ADPCM.

All trademarks property of their respective owners.
© 1994 ENSONIQ Corp, 155 Great Valley Parkway, Malvern PA 19355-0735

*Circle Reader Service #191*

# Shoot The Moon! And Everything Else



*Astro Chase 3D: Interplay's Galactic Shooter For The Mac*

**by Christopher Breen**

IT IS THE DISTANT FUTURE OF OUR GALAXY. THANKS TO THE DEVELOPMENT OF THE FASTER THAN LIGHT DRIVE, earthlings are finally able to pack up their troubles and blast off to the four corners of the Milky Way in a celestial rendition of manifest destiny. Real estate and resources are plentiful and cheap, wars and conflict are but memories, and the whole shebang is run from Mother Earth by the benevolent United ConFederation of Planets.

Regrettably, this galactic love fest is not destined to last. From the far reaches of the cosmos comes a testy alien force that quickly throws up a force field around the ConFederation and, in a particularly unfriendly display of its might, vaporizes a chunk of a neighboring star system. This one-sided engagement is followed by weeks of protracted battle between the cuddly ConFederation forces and the evil interlopers.

**Astro Chase 3D**

**Price:** $59.95
**System:** Macintosh
**Requirements:** System 6.07 or higher, 3.5MB RAM, 6MB hard drive space; supports Gravis GamePad, MouseStick II and monitors up to 21"
**Protection:** None
**Designers:** Richard Spitalny, Peter Jablon, and Ofer Alon
**Publisher:** Interplay
Irvine, CA
(714) 553-3522




Meanwhile, back at the lab, ConFederation scientists are working feverishly on a heretofore secret weapon—the Ultraship—a spaceship capable of violating many physical laws of motion (the sucker turns and backs up on a dime), while dealing massive doses of death to its opponent. Unfortunately, due to mounting market pressure and the fact that the aliens have lobbed several Mega Mines toward the old home planet, only a single Ultraship could be built.

It should come as no surprise that the responsibility for piloting the Ultraship and blasting each and every Mega Mine out of the heavens falls to the owner of ASTRO CHASE 3D. Atomizing these slow-moving pyramids wouldn't be a particularly difficult goal to achieve if it weren't for a large number of hostile alien craft, various asteroids, and the Ultraship's nagging energy requirements.

### S.A.G.E. DEVICE

The game opens with an introductory scene that highlights its proprietary technology, the Software Accelerated Graphics Engine (S.A.G.E.). According to the manual, "S.A.G.E. manipulates bitmapped graphics so quickly and with such memory efficiency that it can render highly detailed and realistic environments in real time." Translation: The graphics, although a touch grainy, look darned cool, and motion is incredibly smooth.

At the beginning of each of the 40 rounds, you are tucked behind the controls of the Ultraship and given several options. You can select a level, adjust volume, pick the gender of the voice that announces such things as "Watch your energy levels!", view high scores, and/or quit the game. The Ultraship's environs consist of a control panel that indicates weapon stores, energy levels, number of lives, and condition of shields, and a radar screen showing the location of Mega Mines, alien ships, and Earth.

Once launched in the great beyond, you must seek out and destroy the Mega Mines, and if you have the time, kick booty on the marauding baddies. As you get bashed about, your ship's energy level decreases, which can only be restored by a trip to a nearby Energy Generator. These generators are large red portals scattered about the solar system. To receive a power boost, simply fly through the portal (or better yet, do a little do-si-do maneuver that backs you in and out of the ring until your ship is fully charged). In addition to the Energy Generators, you will find light blue portals called Shield Depots that provide temporary shielding when they are flown through, and Power Up Stations—multicolored spheres that, when fired upon, cough up the zippy Warp Drive, decoy mines, and weapons such as the Cosmic Energy Weapon and Energy Seeking Missile. Each round is completed when you have destroyed all of the Mega Mines.

### THE MOUSE IS A LOUSE

The Ultraship can be controlled in a number of ways: via the mouse, keyboard commands, the Gravis MouseStick II, or the Gravis GamePad. The manual suggests that the proper way to pilot the ship is to use the mouse as a duel-function controller. Before I take exception to this suggestion and offer tips to our more dexterous readers, let me explain how this is supposed to work.

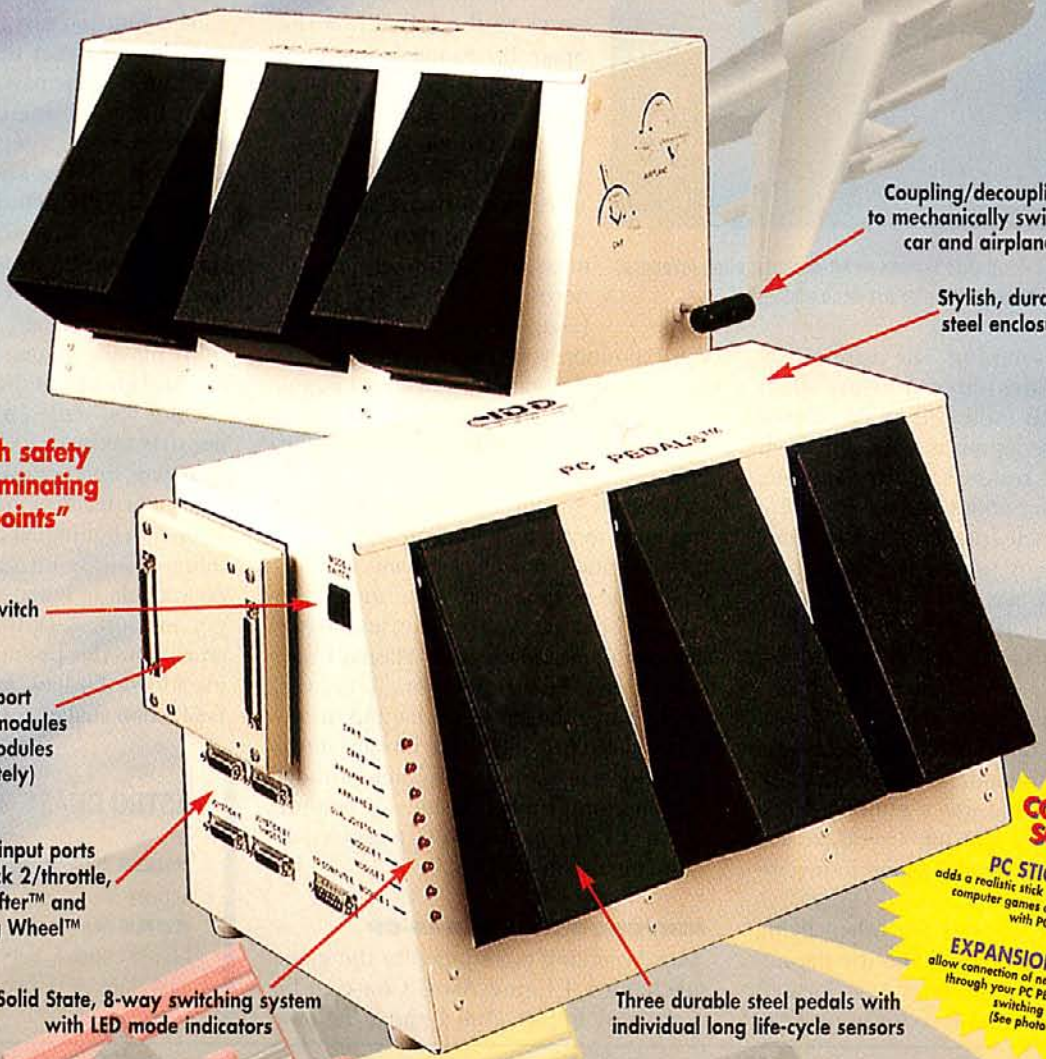
When the mouse-controlled cursor is on-screen without the mouse button depressed, the Ultraship travels in whichever direction the mouse points. When the mouse button is pressed and held, the ship continues to fly on a locked course

# ULTIMATE GAME PERFORMANCE

# PC PEDALS™

Patent Pending

## AIRPLANE/CAR PEDALS & REVOLUTIONARY SWITCHING CENTER




**COMING SOON!**

**PC STICK SHIFT™** adds a realistic stick shift for use on automobile computer games and simulators. Works with PC PEDALS™.

**EXPANSION MODULES** allow connection of new peripheral products through your PC PEDALS™ automatic switching system. (See photo above).

Press the clutch and shift into first gear. The engine starts to whine as you press the accelerator pedal. The light turns green. Drop the clutch and the tires begin to squeal. You timed it just right as you shift into second gear. Your in first place right off the starting line!

"...Maverick you've got a boggy at 2 o'clock! Quick, you don't have time to maneuver to him, just point your nose and fire!" You push your right pedal hard to slew the business end of your FA/18 at the enemy just in time, "FOX 1 OFF!" The missile was right on target, "Splash 1!" These are just a few of the exciting times you can enjoy with the new PC Pedals. Only from InterACTIVE Digital Devices!

PC Pedals™ provides realistic auto clutch/brake/accelerator and aircraft rudder pedal control. PC Pedals can be used with many types of games including flight simulators, car simulators, action/adventure games and many more! No more plugging and unplugging peripheral devices, the PC Pedal's internal, solid state switching center automatically activates the desired devices at the touch of a button.

### OTHER FEATURES INCLUDE...

• Resume mode- remembers mode last used for easy resumption of play • Full range sensor travel for exceptional electrical resolution
• Enjoy upgrade capability by adding up to three expansion modules

*Circle Reader Service #168*

IDD

Dealer Inquiries Welcome

Foreign Sales Welcome

MasterCard

VISA

For more information or to order these and other exciting products, contact:
InterACTIVE Digital Devices, Inc., 6730 West Chicago Street, Suite 5, Chandler, AZ 85226

**Phone: (602) 940-0340 • BBS/FAX: (602) 940-0031**

*InterACTIVE Digital Devices, Inc., is a diversified company developing, manufacturing and distributing computer and consumer products. All trademarks and tradenames herein are the properties of their respective owners.



**ARTSY ARCADE ACTION** Battle hordes of bit-mapped alien invaders, rendered in extravagant full-color art deco stylings.

and never stops moving. The currently selected weapon then fires in steady bursts in the direction indicated by the cursor until the mouse button is lifted and navigation control resumes. If for example, you are zipping about the solar system and find yourself surrounded by enemy ships and one or two cosmic dirt clods, you'd spray one and all with deadly fire by pressing and holding the mouse while moving the cursor in a circle around the ship.

In theory this system sounds workable, but I found it rather clumsy. The mouse just isn't a precision device, and all too often what I thought was a minor navigational adjustment sent me several parsecs out of my way. Instead, I opted to investigate keyboard control.

The manual suggests that when flying and fighting by keyboard you use the numeric keypad or the letter keys located around the T, G, and B sector to navigate and fire. Your left hand uses the Control and Shift keys to switch between forward and reverse and to select different weapons. To fly in a particular direction, hold down the appropriate key; for instance, 7 or T turns the ship 90 degrees to the left. Press the Space Bar to toggle into gunner mode and press a key to fire; 7 and T now shoot forward and to the left at 45 degrees. As you can see, the directions for navigation and weapons control are not matched, and this adds an unnecessary level of difficulty. Using this setup requires that you reposition your hand every time you move from navigation to weapons mode. Not particularly strenuous, I admit, but in the later levels it could mean the difference between life and death.

To really rip through ASTRO CHASE 3D you need to use only the four cursor keys for navigation and the left-hand controls to fire the weapons, flip from forward to reverse, blast into Warp Drive, and toggle between the standard Solar Plasma Beam and Cosmic Energy Weapon. True, this does change the strategy a bit and means that you can fire only in the forward direction, but you can win this game without *ever* shooting from the sides or behind, deploying one of the exotic weapons, or stopping at a Shield Depot.

### NINTENDONITIS FLARE-UP

After becoming accustomed to the game mechanics, I found Astro Chase to be pretty easy to play. And I wasn't the only one—a 12-year old equipped with a Nintendo controller wiped me out in under 15 seconds. Even so, I progressed to Level 34 before even considering the use of the much more powerful Cosmic Energy Weapon or a Shield Depot. With just six levels remaining, it dawned on me that piloting the Ultraship in this way makes the game a little too easy.

That's not to say that the last ten levels are a stroll in the park, as the cramp in my firing finger will attest. At Level 30, for example, the Mega Mines sport a satellite known as a Mega Mine Guardian, which orbits rapidly around the mine. One touch from this guardian and you're shrapnel. But it was relatively easy to stay out of range of the Guardian, moving to and fro—remember, the Ultraship never stops moving in one direction or another—and knock out the mine.

Once you settle on a comfortable playing style, ASTRO CHASE 3D is a fast-paced, engaging, and not overly taxing diversion. The game features great graphics and fluid motion but ultimately suffers by making things too easy for seasoned arcade players capable of independent hand-and-finger motion. A skill-level option would ameliorate this problem, but until the day it's added, I'll look to Nintendo brats for new action challenges.

### ASTRO CHASE 3D

★★ 1/2

**PROS** Nice graphics, fast arcade action

**CONS** Squirrely mouse and keyboard control, very repetitive, too easy, lack of difficulty settings



# The Invasion has begun.

Technology licensed from ID Software, creators of

**WOLFENSTEIN™ 3D**







# CORRIDOR 7
## Alien Invasion

At a software dealer near you or call (305) 591-5900 • (800) 468-7226 • BBS (305) 471-8962 (2400-14.4 Baud Rates)

Wolfenstein is a trademark of Id Software. All Rights Reserved. Corridor 7: Alien Invasion and Capstone are trademarks of IntraCorp Inc. All other trademarks acknowledged.

Capstone™

Circle Reader Service #51

# COMPUTER Express

Since 1985

**800-228-7449** EXT. 333

TOLL FREE ORDER LINE

## AEGIS CD



Guardian of the Fleet naval simulation. Pushes you to the limit of real-time strategic and tactical combat simulation. Puts the latest in military technology and the ultimate high-tech warship at your fingertips. Features historically accurate battle sequences. Based on newly declassified military information and historical accounts of actual battles. Challenges you to use the arts of deception, intelligence and warfare in this high-tech, high-thrill military simulation.

Time Warner: DOS-CD **$53**

## SUPRAFAXMODEM 14.4LC EXTERNAL



External 14,400bps data and 14,400bps send/receive fax/modem. V.42bis data compression for up to 57,600bps throughput. SilentAnswer supports receive fax and voice calls on one phone line. Caller ID, when supported by the phone company, displays information about incoming calls. LED display lights track modem activity. Package includes WinFax Lite, FaxTalk, COMit and CompuServe Information Manager software. 5-year warranty!

Supra Corp.: WIN/DOS, MAC **$159**

## BENEATH A STEEL SKY



In the not too distant future, you have two choices: live in the giant city states controlled by six vast corporations or reside in a wasteland known as The Gap. As Gap dweller Robert Foster, your peaceful existence is decimated by the arrival of security forces intent on taking you to the city. The route to solving this sci-fi mystery and freeing this city of oppression is littered with logical problems to solve, security clearances to forge and military forces to evade.

Virgin: IBM **$39**

## HARPOON II



Take control of your navy in this exciting sequel to the award winning game Harpoon. Modern naval warfare simulation that puts the user in command of a variety of modern combat ships, submarines, and aircraft. Realistic military-style vector maps provide a high tech look that is sure to please even the most die-hard armchair admiral.

Three-Sixty: DOS, MAC **$42**

## AUDIO MAGICIAN 16CD



True 16-bit card with 16-bit stereo sound. Integrated 16-bit A/D D/A Converters. Built-in Joystick Port with 2 Joystick capabilities. Four operator, 20 voice FM music (Yamaha Synthesizer OPL3). Internal CD ROM Audio Interface. Microphone jack and amplifier. Sound Blaster and AdLib Compatible. Compatible CD-ROM Drives: Panasonic CR-523B/CR-562B, Sony CDU-31A/CDU-33A, Mitsumi CRMC-LU005S/CRMC-FX001O, Wearnes CDD-110. Includes 3.5" disk for Wolfenstein 3D.

Calyxso: IBM **$98**

## SUBWAR 2050



As a mercenary sub pilot, fight fierce battles for corporate territory deep beneath the waves. Explore thousands of square miles of accurately mapped 3-D underwater seascapes in four different multi-mission campaigns: the Antarctic Ocean, the North Atlantic, the South China Sea and the Sea of Japan. Simulated Combat mode lets you master maneuvers like Knuckles and Deep Dives before entering a mission. Pilot four types of submarines, including deep-sea exploration vessels, reconnaissance subs and highly maneuverable fighter subs.

Microprose: DOS **$35**

IBM CD-ROM

10-Yr Anthology ..... 30
11th Hour ..... 51
1994 Guiness Disc of Records ..... 31
20th Century Video Almanac ..... 109
3 Balloons ..... 30
3D Dinosaur Adventure ..... 43
7th Guest ..... 50
AD&D: Dark Sun Shattered Lands ..... 49
AD&D: Dungeon Hack ..... 43
AD&D: Eye Beholder Trilogy ..... 52
AD&D: Genie's Curse ..... 44
Aces over Europe ..... 41
Aegis: Guardian of the Fleet ..... 49
AirWorks ..... 25
Alone in the Dark ..... 47
Art Gallery Windows ..... 54
Arthur's Teacher Trouble ..... 35
Artic Baron ..... 30
AutoMap 3.0 ..... 51
Battle Chess ..... 45
Battledrome ..... 30
Beethoven The Ninth Symphony 1.1 ..... 52
Beneath a Steel Sky ..... 38
Berlitz Think & Talk French ..... 97
Berlitz for Business: Japanese ..... 110
Better Homes Healthy Cooking ..... 52
Bibles & Religion Shareware ..... 12
BioForge Interactive Movie ..... 48
Blood Net ..... 41
Bookshelf Windows '94 ..... 65
Budget Guide USA 1993 ..... 19
Buzz Aldrin's Space ..... 55
CNN Time Capsule 1993 ..... 27
Castles II ..... 48
Challenge CD Pack ..... 30
Championship Pinball ..... 35
Cinemania Movie Guide '94 ..... 52
Comanche w/Mission Disks 1&2 ..... 60
Command Starship ..... 41
Companions of Xanth ..... 35
Compton's Inter. Encyclopedia '94 ..... 93
Conspiracy ..... 42
Coral Reef ..... 41
Cowboy Casino ..... 34
Crime Patrol ..... CALL
Critical Path ..... 45
Curse of Enchantia ..... 26
CyberRace ..... 40
Cyberplasm Formula ..... 33
D&D: Fantasy Empires ..... 37
D&D: Stronghold ..... 37
D-Day: Operation Overlord ..... 30
Daemonsgate ..... 30
Dare to Fly ..... 41
Dark Legion ..... 36
Day of the Tentacle ..... 39
Deathstar Arcade Battles ..... 12
Dinosaurs! Encyclopedia ..... 46
DirectPhone ..... 89
Discovery CD Pack ..... 68
Dracula Unleashed ..... 48
Dragon's Lair ..... 41
DragonSphere ..... 50
Encarta Encyclopedia '94 ..... 92
Evolution ..... 35
F-15 Strike Eagle III ..... 48
Falcon Gold ..... 50
Five on 5 ..... 41
Flight ATP w/East & West ..... 62
Flight Simulator Toolkit ..... 58

IBM CD-ROM

Flying Circus ..... CALL
Freelancer 2120 ..... 41
FreePhone ..... 25
Fun CD Pack ..... 46
Gabriel Knight ..... 46
Gateway II ..... 34
Gettysburg ..... 40
Global Explorer ..... 87
Great Naval Battles II ..... 41
Great Naval Battles Pack ..... 52
HAM Radio Shareware ..... 12
Hand of Fate ..... 44
Harvester ..... 46
Hell Cab ..... 50
Horde ..... 33
Human Calulator ..... 26
Humans ..... 26
Incredible Machine ..... 30
Indiana Fate of Atlantis ..... 39
Inherit the Earth ..... 35
Iron Helix ..... 58
J.F.K Assassination ..... 34
Journeyman Project ..... 45
Jump Raven ..... 43
Jutland ..... 50
King's Quest Anthology ..... 52
King's Quest VI ..... 44
King's Quest VI Upgrade ..... 26
Labyrinth of Time ..... 48
Lands of Lore ..... 42
Lawnmower Man ..... 39
Leisure Suit Larry VI ..... 41
Links: Pinehurst Country SVGA ..... 21
Lord of the Rings ..... 45

IBM CD-ROM

Lost in Time ..... 21
Lunicus ..... 43
Lyric Language French ..... 35
Lyric Language Spanish ..... 35
MPC Wizard Diagnostic ..... 12
MPEG - 20th Century Video Alminac ..... 58
MPEG - Dragon's Lair ..... 40
MPEG - Horde ..... 49
MPEG - Lord of the Rings ..... 45
MPEG - Man Enough ..... 46
MPEG - Police Quest IV ..... 45
MPEG - Return to Zork ..... 46
MPEG - SoundTrack ..... 52
MPEG - Space Ace ..... 46
MPEG - Sporting News ..... 26
MPEG - Video Cube Space ..... 21
Mad Dog McCree ..... 30
Man Enough ..... 45
Maniac Sports ..... 30
Mayo Clinic Family Health 1.2 ..... 40
Mayo Clinic Family Pharmacist ..... 58
Mayo Clinic Total Heart ..... 35
MechWarrior II ..... 46
Mega Race ..... 37
Metaltech: Earth Siege ..... CALL
Microcosm ..... 46
Microsoft Baseball WIN ..... 54
Microsoft Golf ..... 42

IBM CD-ROM

Mig 29 Gold ..... 50
Might & Magic World of Xeen ..... 41
Millennium Auction ..... 41
Monopoly Deluxe ..... 44
Morphman ..... 29
Multimedia Dinosaurs ..... 52
Multimedia Mozart ..... 52
Multimedia Stravinsky ..... 52
Musical Instruments ..... 52
Myst ..... 50
Newsweek Interactive #1 ..... 30
Newsweek Interactive #2 ..... 30
Newsweek Interactive #3 ..... 21
Nomad ..... 35
Oceans Below ..... 29
Outpost ..... 40
Pacific Strike & Speech Pack ..... 49
Penthouse Interactive ..... 78
Photo CD Access Plus WINDOWS ..... 35
PhotoEdge Color WIN ..... 97
Police Quest IV ..... 41
Porky Pig ..... 21
Publisher 2.0 ..... 92
Quantam Gate ..... 45
ROMIX Comics Freex #1 ..... 18
ROMIX Comics Hardcase #1 ..... 18
ROMIX Comics Prime #1 ..... 18
Raiden ..... 30
Rampage ..... 41
Ravenloft ..... 58
Rebel Assault ..... 45
Red Baron/A-10 Tank ..... 35
Redshift ..... 48
Return of the Phantom ..... 38
Return to Zork ..... 45
SSN-21: Sea Wolf ..... CALL
SVGA Harrier ..... 48
Sam & Max Hit the Road ..... 39
Saurus ..... CALL
Science Adventure II ..... 51
Scrabble Deluxe ..... 30
Secret of Monkey Island ..... 47
SelectPhone ..... 169
Shadow Caster ..... 58
Shadow of the Comet ..... CALL
SimAnt Enhanced ..... 47
SimCity Enhanced ..... 47
SimEarth ..... 52
Sitting on the Farm ..... 43
Soft Kill - WIN ..... 26
Space Hulk ..... 21
Space Quest Anthology ..... 46
Space Quest IV ..... 41
Space Shuttle MPC ..... 30
Spear of Destiny Super CD-Pak ..... 46
Spectre VR ..... 42
Spellcasting Party Pak ..... 30
Sporting News Pro Football ..... 27
Star Trek 25th Enhanced ..... 57
Star Trek: Collectibles Guide ..... 32
Star Trek: DSN - The Hunt ..... 41
Star Trek: TNG Tech Manual ..... 35
Star Trek: The Next Generation ..... 58
Street Atlas 2.0 USA ..... 90
Strike Commander/Tactical ..... 54
Superhero: League of Hoboken ..... 35
Syndicate Plus ..... 36
Terminator: Rampage ..... 39
Terror of the Deep ..... 35
Tetris Gold Compilation ..... 35

**FREE LOTTERY TICKET WITH ORDERS OVER $75**

Request Your

**FREE**

Two Dollar Instant Lottery Ticket

For Domestic Customers Only
While Supplies Last

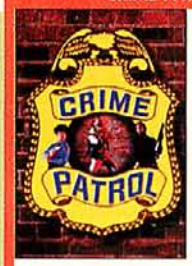
## AIR COMBAT PACIFIC 1942




Take on the challenges that WWII fighter pilots faced. Performing high-speed dives upon heavily defended carriers and chasing down Wildcats, Corsairs, and Zeros. Challenge the enemy at the battles of Coral Sea, Midway, Eastern Solomon's, Santa Cruz, and the Philippine Sea. Command U.S. or Japanese forces, or experience the thrill of head to head dogfights with a friend via modem connection. Pilot any of ten historically accurate planes, each with its authentic cockpit and flight characteristics.

Microprose: DOS **$49**

## CRIME PATROL




This multi-level live-action thriller challenges the player to progress though police ranks, battling a variety of criminal elements. As a rookie the player takes on gang members, armed robbers and other street criminals. Promotion to detective will mean working undercover against drug dealers and car thief rings. Be prepared to confront bank robbers and terrorist once you're selected for SWAT team assignment. Only the better player will be able to reach Delta Force and tangle with a criminal element threatening national security.

American Laser Games: IBM CD **$ CALL**

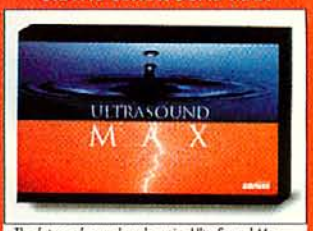
## SPECTRE VR



In this sequel to the best-selling smash hit, you can soar above it all with hovering capability. And you have a whole new pantheon of enemies to deal with, like slicers and smart acid pools. Fortunately, you have smart weapons like pulse bursts, spinners, smart missiles, proximity mines, cyberblasts and scattershots! Escape through transporter gates! Submerge into negative cyberspace! And finally, by using the optional virtual reality editor, you can even design the Virtual Worlds to play in later and share with your friends.

Velocity: IBM CD, MAC CD **$42**

## GRAVIS ULTRASOUND MAX




The future of sound and music. UltraSound Max incorporates 32 voices of true Wavetable Synthesis, a process used by today's top studio synthesizers. Sounds are created using digital recordings, or samples, of actual musical instruments or sources (i.e., grand piano, bird chirping, violins, etc.). FEATURES: 16-Bit, 48 kHz stereo playback and recording. Expandable 192 General MIDI Instrument Set.

Advanced Gravis: IBM **$199**

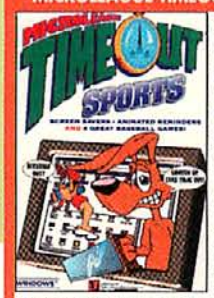
## U-BOAT




If you've always dreamed of spending months at sea in the claustrophobic confines of a WWII submarine, this is for you. Bring along a good book to while away the off-watch hours. Also bring the nerve to withstand incessant barrages of depth charges rattling your teeth at 200 meters. Bring the intelligence not to venture a surface shot on a capitol ship in broad daylight. Bring the skill to navigate treacherous waters.

Deadly Games: MAC **$34**

## MICROLEAGUE TIMEOUT SPORTS




Four fun, fast baseball games hosted by two zany characters. Bernie and his dog, Jack, are here to brighten your life with their irrepressible antics. They're on 24 hour duty to prevent your screen from burn-in and your mind from burn-out. Random, hourly, or pre-set attention grabbers featuring Bernie and Jack pop-up on screen to remind you to take a break—with any of the four fast and fun filled baseball game included: Batting Practice, Fungo Fielding, Sign Calling 101, or Umpire arguing.

Microleague: WIN **$24**

## EMPIRE SOCCER




All the excitement and fast paced action of the World Cup competition. Take total control of all the teams vying for the Worlds most coveted sports honor. Each of the 24 national teams has been meticulously studied and rendered so that they mirror the strengths and playing styles of the actual squads. On the field, perform all the moves that these elite athletes the best soccer players in the world.

Empire Software: DOS **$29**

## POLICE QUEST IV




The highly anticipated fourth chapter in the best-seller Police Quest series is here! The nation's most experienced cop brings you the most realistic police simulation ever! Features all-new ultra-realistic digital photography taken throughout California, video-captured actors, and digitized crime scenes. State-of-the-art sound effects and music, including rock, rap, and hip-hop. You can't get any closer to the crime scene without a badge. Windows compatible for fast, point-and-click gameplay.

Sierra: IBM CD **$45**

### IBM CD-ROM

The Patrician ..... 35
Theme Park ..... 37
Three Stooges ..... 21
Tony LaRussa Baseball II ..... 48
Total Distortion ..... 68
UFO Close Guide ..... 32
USA Today: The 90's Vol. 1 ..... 45
Ultima I - VI ..... 55
Ultima Underworld I & II ..... 55
Ultima VII: Complete Series ..... 42
Ultima VIII: Pagan w/ Speech ..... 58
Under a Killing Moon ..... 56
Vegas Games Deluxe ..... 26
Video Cube Space ..... 40
Video Cube Sports ..... 25
Viper: Assault on the Outfit ..... 41
Where in World Deluxe ..... 55
Who Shot Johnny Rock? ..... 34
Wild Blue Yonder ..... 52
Wolf Pack ..... 32
Works 3.0 ..... 110
World Atlas 4.0 ..... 45
World Circuit Grand Prix ..... 35
Wrath of the Gods ..... 43

Air Warrior ..... 35
Alone in the Dark ..... 34
American Civil War III ..... 30
Astrochase ..... 35
Axis the Gamecheater ..... 31
Caesar ..... 35
Caesars Palace ..... 21
Carriers At War ..... 41
Castles II ..... 35
Citadel of the Dead ..... 18
Civilization ..... 45
CyberRace ..... 41
Dark Seed ..... 39
Detroit ..... 41
Empire Deluxe ..... 35
Evolution ..... 30
F-117A Stealth Fighter ..... 40
Flight Commander ..... 41
Flight Simulator 4.0 ..... 44
Flying Nightmares ..... 41
FreeLancer 2120 ..... 35
G-Netix ..... 46
Gabriel Knight ..... 40
Harpoon II ..... 41
Indiana Jones Fate of Atlantis ..... 35
Jeopardy Sports Edition ..... 26
Jeopardy with Alex Trebeck ..... 25
King's Quest VI ..... 45
Legend of Kyrandia ..... 35
Leisure Suit Larry VI ..... 41
M4 Sherman Tank ..... 35
Mac Attack ..... 21
Mac Full O'Humans ..... 26
More Incredible Machines ..... 30
Oxyd Magnum ..... 37
PGA Tour Golf II ..... 30
Pathway into Darkness ..... 37
Police Quest IV ..... 39
Powermonger ..... 35
Quest for Glory IV ..... 38
Raiden ..... 30
Royal Flush ..... 37
SimAnt ..... 30
SimCity 2000 ..... 40
SimCity 2000: Great Disasters ..... 15

### MACINTOSH

SimCity Classic ..... 26
SimCity Graphics: Ancient City ..... 15
SimCity Graphics: Set II ..... 15
SimLife ..... 30
Solitaire Antics ..... 18
Spectre VR ..... 35
Star Trek 25th Anniversary ..... 34
Star Trek: DSN - The Hunt ..... 41
Storymation 2 ..... 35
Strip Poker Pro #1 Data Disk ..... 19
Strip Poker Pro #6 Data Disk ..... 19
Strip Poker Professional ..... 30
Sword of Sodan ..... 30
Terror of the Deep ..... 35
Theme Park ..... 37
Thrustmaster Flight Cont. MK1 ..... 101
Thrustmaster Rudder Pedals ..... 101
Thrustmaster Weapon Mark1 ..... 61
Train Engineer ..... 30
U-Boat ..... 35
Valkyrie ..... 30
Vegas Games Entertainment Pack ..... 21
Virtus VR ..... 60
Wheel of Fortune w/Vanna White ..... 30
World at War: Op. Crusader ..... 41
Zig Zag ..... 30

### MACINTOSH CD-ROM

11th Hour ..... 51
3 Balloons ..... 30
7th Guest ..... 50
Chessmaster 3000 ..... 35
Cyberplasm Formula ..... 33
Dare to Fly ..... 41
Dark Seed ..... 39
Dracula Unleashed ..... 56
Evolution ..... 35
Flying Nightmares ..... 38
Freelancer 2120 ..... 41
Gabriel Knight ..... 40
Gus Goes to Cybertown ..... 35
Hell Cab ..... 58
Indiana Jones Fate of Atlantis ..... 39
Iron Helix ..... 58
JourneyMan Project ..... 44
Jump Raven ..... 43
Labyrinth of Time ..... 48
Lawnmower Man ..... 39
Lunicus ..... 43
Madness of Roland ..... 35
Maniac Sports ..... 30
Myst ..... 46
Penthouse Interactive I ..... 78
Planetary Taxi ..... 29
Police Quest IV ..... 39
Rebel Assault ..... 45
Redshift ..... 48
Return to Zork ..... 46
Sitting on the Farm ..... 45
Soft Kill ..... 26
Spectre VR ..... 42
Star Trek: DSN - The Hunt ..... 41
Star Trek: TNG Tech Manual ..... 35
Street Atlas USA ..... 87
Syndicate ..... 36
Theme Park ..... 37
Viper: Assault on the Outfit ..... 41
Virtual Tarot ..... 30
Wild Blue Yonder ..... 52
Wrath of the Gods ..... 43
Xplora 1: Peter Gabriel World ..... 27


**800-228-7449** EXT. 333 VOICE:508-443-6125 FAX:508-443-5645

**31 Union Ave., Sudbury, MA 01776**

日本の皆様よりのオーダー大歓迎！日本語で FAX:0011-508-443-5645、
又は,CompuServeID:70007,1534で見積りをお問い合わせ下さい。
迅速に,如何なる御要望にも誠意をもってお応え致します。

**FREE UPS GROUND SHIPPING**

**10,000 IN STOCK ITEMS**


### SEGA/SNES/3DO

Aladdin SEGA ..... 47
Animals - 3DO ..... 47
Art of Fighting SNES ..... 58
Blades of Vengeance SEGA ..... CALL
Cliffhanger SEGA ..... 53
Dragon's lair 3DO ..... 49
Dungeon Master SNES ..... 64
Escape from Monster Manor 3DO ..... 50
Eternal Champions SEGA ..... 60
Hardball III SNES ..... 56
Horde 3DO ..... 52
John Madden NFL '94 3DO ..... 51
Jungle Strike SEGA ..... 43
Jurassic Park SEGA ..... 43
Kombat Cars SEGA ..... 36
Leathal Enforcers SEGA ..... CALL
Leathal Enforcers SEGA CD ..... CALL
lemmings 3DO ..... 51
MLBPA Baseball SNES ..... 51
Mad Dog McCree 3DO ..... 51
Micro Machines SEGA ..... 46
Mortal Kombat SEGA ..... 59
Mortal Kombat SEGA CD ..... 44
Mortal Kombat SNES ..... 61
NBA Jam SEGA ..... 55
NBA Jam SNES ..... 55
NBA Showdown 94 SEGA ..... 50
NHL '94 SEGA ..... 46
Normy's Beach SEGA ..... CALL
Oceans Below 3DO ..... 43
Out of this World 3DO ..... 51
Pele II SEGA ..... 49
Pelet Soccer SNES ..... 53
Shadowrun SEGA ..... 50
Sonic the Hedgehog 3 SEGA ..... 58
Space Shuttle 3DO ..... 43
Star Control II 3DO ..... 52
Star Trek: TNG - Echoes SEGA ..... 50
Star Trek: TNG Future's Past 3DO ..... 61
Star Trek: TNG Future's Past SNES ..... 61
Street Fighter II SEGA ..... 63
Street Fighter II SNES ..... 62
Super NBA Basketball SEGA ..... 58
Super Off Road Baja SNES ..... 53
Super Wing Commander 3DO ..... 50
Tomcat Alley SEGA CD ..... 51
Virtua Racing SEGA ..... 58
Virtual Pinball SEGA ..... CALL
X-Men SEGA ..... 44

### IBM PRODUCTIVITY

After Dark 2.0 WIN ..... 30
AutoMap 3.0 WIN ..... 57
AutoMap Upgrade 3.0 WIN ..... 26
Bubsy TM: Screen Saver - WIN ..... 15
Charles Barkley: Screen Saver - WIN ..... 15
Corel Draw MPC 5.0 ..... 465
Disney Collection Screen Saver ..... 29
Get Wired WINDOWS ..... 21
Gifs Galore Shareware CD ..... 18
Holy Bible King James Version ..... 29
Home Survival Toolkit ..... 32
IBM PC DOS 6.3 ..... 84
IBM PC DOS Upgrade 6.3 ..... 53
Key CAD Complete ..... 25
Libris Brittannia Shareware CD ..... 30
Lotus 123 Release 4 Upgrade WIN ..... 100
Norton Desktop 3.0 WIN ..... 116
Office Standard WIN 4.2 ..... 468
Personal Golf Analyzer ..... 10
Photo CD Auto Racing ..... 30
Photo CD Fireworks ..... 30
Photo CD Sailboats ..... 30
Photo CD WWII Aircraft ..... 30
Plan it Paradise WIN ..... 30
Print Shop Deluxe CD Ensemble ..... 72
Print Shop Deluxe WIN ..... 46
Procomm Plus WIN ..... 98
Publisher 2.0 WIN ..... 87
QEMM 386 7.x ..... 63
Remind Me ..... 30
Scenes Impressionists Collect ..... 23
Scenes Outer Space Collection ..... 23
Scenes Sierra Club Collection ..... 23
Star Wars Scren Saver ..... 27
WinFax Pro WIN 4.0 ..... 82
Windows 3.11 Upgrade ..... 51
Word 6.0 WIN ..... 308

### IBM RECREATION

AD&D:Dark Sun Shattered Lands ..... 48
AD&D:Dungeon Hack ..... 39
AD&D:Eye of Beholder Trilogy ..... 49
AD&D:Genie's Curse ..... 41
APBA Baseball WIN ..... 30
Aces Over Korea ..... CALL
Aces of the Deep ..... 41
Aces over Europe ..... 41
Aces over Europe:Mission #1 ..... CALL
Aces over Europe:Mission #2 ..... CALL
Across the Rhine ..... 39

# COMPUTER Express

Since 1985

800-228-7449 EXT. 333

TOLL FREE ORDER LINE

## REELMAGIC LITE




No more jerky video. Thanks to the MPEG standard, you'll enjoy full-motion, full-screen playback on your PC. ReelMagic Lite brings a dazzling array of entertainment and interactive learning software to your desktop. Use ReelMagic Lite for a variety of applications, including entertainment, Video CD, interactive learning, Karaoke CD, business presentation and training software. Thirty frames per second video playback gives you TRUE full motion, Full-screen video for a real movie-like experience.

Sigma Designs: IBM **$299**

## ORIGAMO




Enjoy this enticing visual puzzle game. Explore the graphically rich maze with unique puzzles in every room. Forge through the maze by successfully completing each puzzle. As the conveyer belt moves along, with a myriad of block and shapes, you must place the block on the puzzle or your blocks will stack up and time will run out! Continuing through the maze you will discover beautiful and sensational graphics and animation throughout this exciting multi-leveled puzzle.

GGP: DOS **$30**

## THRUSTMASTER WEAPONS MARK II



User programmable throttle and weapons functions. Compatible with 5-pin keyboard connectors. Program your joystick for any current or future game. Your gaming peripherals (joystick and WCS) will be instantly compatible with current or future games. Features: LED lighting system indicates when certain functions are activated; Screw-down connector; Handle moves fore and aft for throttle control; Sturdy seven-foot cables; Allows joystick programmability through joystick interface; Digital/Analog mode toggle switch; User-programmable functions; One-year warranty.

Thrustmaster: IBM **$92**

## MORPHMAN CD



You are the super hero Morphman and it's your job to rescue the kidnapped Professor, destroy scientific experiments, and blow up a research fortress. The world is depending on you and your Morph technology to accomplish this task before the experiments reach civilization. Your only weapons are your wit and the molecular sampler on your sleeve that allows you to alter your own molecular structure and that of objects around you. Features realistic 3D animation with Microsoft Video for Windows. Realistic 3D explosions, disintegrations, glowing and other special effects seen only in movies.

Dynamic Dimensions: DOS-CD **$28**

## THE 11TH HOUR




The Eleventh Hour is the eagerly awaited sequel to one of the best selling CD-ROM entertainment products ever. In the seventy desolate years since the horrifying murders chronicled in The Seventh Guest, the rotting mansion of evil you maker Henry Stauf has been ominously silent. Only when reporter Robin Morales vanished while investigating the house do events resurrect the malignant past. As Morales' colleague and lover, you explore the ravaged estate and strangely quiet town to look for her.

Virgin Games: IBM CD, MAC CD **$51**

## DISCIPLES OF STEEL




The disappearance of your father has left Lanthor without a leader. Factional infighting in the resulting power vacuum has left the realm in chaos! Save your once-rich land by re-establishing the supremacy of the guilds. Choose your disciples and strategies, build vast armies to conquer or defend, heed the counsel of the lords, or assassinate them—everything is under your control! Control and develop up to 8 disciples. Large array of powerful weapons. Huge selection of magic spells.

FormGen: DOS **$34**

IBM RECREATION

Advanced Civilization ..... 35
Adventure Pack ..... 25
Air Combat Classics ..... 40
Air Warrior ..... 35
Alien Legacy ..... CALL
Alone in the Dark II ..... 34
Arborea 2 ..... 30
Archon Ultra ..... 35
Arctic Baron ..... 30
Art of the Kill ..... 25
Axis the Gamecheater ..... 36
Barkley Basketball ..... CALL
Battle Chess 4000 WIN ..... 34
Battle Cruiser 3000AD ..... CALL
Battle of Britain 2 - WIN ..... 35
Battledrome ..... 30
Bicycle Bridge WIN ..... 29
Bicycle Poker WIN ..... 29
Big One WIN ..... 30
Biotorge Interactive Movie ..... 48
BlackJack for Windows 3.0 ..... 32
Blake Stone ..... 10
Blitzkrieg ..... CALL
Blood Net ..... 39
Blue & the Gray ..... 39
Body Blows ..... 26
Breach 3 ..... 35
Bridge Olympiad ..... 30
Brutal Sports Football ..... 35
Caesars Palace WIN ..... 18
Campaign II ..... 34
Cannon Fodder ..... CALL
Carrier Strike ..... 41
Carriers at War II ..... 39
Castles II:Siege & Conquest ..... 35
Celtic Tales: Balar Evil Eye ..... CALL
Civilization ..... 46
Clash of Steel: WWII 1939-45 ..... 41
Classic 5 WIN ..... 30
Coaster ..... 18
Comanche & Mission Disk #1 ..... 49
Comanche: Mission Disk I ..... 25
Comanche: Mission Disk II ..... 31
Command Starship ..... 37
Command and Conquer ..... CALL
Companions of Xanth ..... 34
Corridor 7 ..... 30
CyberRace ..... 40
CyberSpace ..... 35
D&D:Fantasy Empires ..... 37
D&D:Stronghold ..... 37
D-Day: Operation Overlord ..... 30
D-Day: The Beginning of End ..... 41
Daemonsgate ..... 30
Dark Legion ..... 42
Dawn of Aerial Combat ..... 41
Day of the Tentacle: Maniac II ..... 34
Delta V ..... 41
Detroit ..... 41
Dimension ..... CALL
Disciples of Steel ..... 35
Doom Episode I ..... 7
DreamWeb ..... 35
Dune II ..... 30
Dungeon Master ..... 35
Earth Invasion Arcade WIN ..... 26
Elder Scrolls: Vol I Arena ..... 39
Empire Deluxe ..... 35
Empire Deluxe Scenario ..... 23
Empire Deluxe WIN ..... 35

IBM RECREATION

Eternam ..... 35
Evasive Action ..... 32
Even More Incredible Machines ..... 30
Evolution ..... 30
F-14 Fleet Defender ..... 50
F-15 Strike Eagle III ..... 39
Falcon 3.0 ..... 48
Falcon 4.0 ..... CALL
Falcon: FA-18 Hornet ..... 32
Falcon:Mig 29/Deadly Adversary ..... 31
Fields of Glory ..... 38
Flat Top ..... CALL
FlashBack ..... 30
Flight Light ..... [illegible]
Flight Screen Saver ..... [illegible]
Flight Si... [illegible]
Flight... [illegible]
Flig... [illegible]
Flig... [illegible]
Fly... [illegible]
Fo... [illegible]
Fo... [illegible]
Fre... [illegible]
Fra... [illegible]
Fra... [illegible]
Fra... [illegible]
Ga... [illegible]
Ge... [illegible]
Ge... [illegible]
Gi... [illegible]
Gl... [illegible]
Gl... [illegible]
Ga... [illegible]
Ga... [illegible]
Ga... [illegible]
Ga... [illegible]
Gre... [illegible]
Gr... [illegible]
Gr... [illegible]
Gr... [illegible]
Gre... [illegible]
H.A.W... [illegible]
Hannibal ..... [illegible]
HardBall IV ..... 35
FlashBack ..... 30
Flat Top ..... CALL
Flight Light ..... 21
Flight Screen Saver ..... CALL
Flight Sim: New York Scenery ..... 28
Flight Sim: Paris Scenery ..... 29
Flight Simulator 5.0 ..... 44
Flight Simulator Guide ..... 16
Flight Simulator Toolkit ..... 51
Flying Circus ..... CALL
Formula One Grand Prix 2 ..... CALL
Four Play ..... 21
Freelancer 2120 ..... 35
Front Page Sports: Baseball ..... CALL
Front Page Sports:Football Pro ..... 46
Frontier - Elite II ..... 37
Game Maker 2.0 ..... 48
Genghis Khan II ..... 35
Gettysburg WIN ..... 29
Global Dominations ..... 34
Global Response ..... CALL
Gobliiins ..... 18
Gobliiins II ..... 21
Gobliiins III ..... 21
Golf WIN ..... 44

IBM RECREATION

Grand Slam Bridge II WIN ..... 31
Grandest Fleet ..... 35
Great Naval Battles II ..... 42
Great Naval Battles Pack ..... 49
Great War ..... 39
H.A.W.C. ..... 26
Hannibal ..... 30
HardBall IV ..... 35
Harpoon II ..... 42
Head Coach Football WIN ..... 26
Heavy Hockey ..... CALL
Heirs to the Throne ..... 33
Heros of Might & Magic ..... 41
[illegible] ..... 42
[illegible] ..... 49
[illegible] ..... 15
[illegible] ..... 26
[illegible] ..... 21
[illegible] ..... 21
[illegible] ..... 30
[illegible] ..... 35
[illegible] ..... 37
[illegible] ..... CALL
[illegible] ..... CALL
[illegible] ..... 35
[illegible] ..... 32
[illegible] ..... 27
[illegible] ..... 18
[illegible] ..... 18
[illegible] ..... CALL
[illegible] ..... 35
[illegible] ..... 35
[illegible] ..... 26
[illegible] ..... 26
[illegible] ..... 26
[illegible] ..... 36
[illegible] ..... 36
[illegible] ..... 26
[illegible] ..... 45
[illegible] ..... 30
[illegible] ..... 35
[illegible] ..... 35
[illegible] ..... 15
[illegible] ..... 41
Kye Deluxe ..... 31
Heros of Might & Magic ..... 41
High Command ..... 42
Horde ..... 49
Human's: Insult to Injury ..... 15
Human's: Like You've Never Seen ..... 26
INCA ..... 21
INCA 2 ..... 21
Incredible Toons ..... 30
Indiana Jones Fate of Atlantis ..... 35
IndyCar Racing ..... 37
IndyCar Circuits: Expans. Pack ..... CALL
IndyCar: Indianapolis Speedway ..... CALL
Inherit the Earth: Orb Quest ..... 35
Jack Nicklaus Signature Golf ..... 27
Jack Nicklaus Signature Tour 1 ..... 18
Jack Nicklaus Signature Tour 2 ..... 18
Jagged Alliance ..... CALL
Jeopardy Deluxe WIN ..... 35
Jeopardy Sports Ed. WIN ..... 26
Jeopardy Sports Edition ..... 26
Jurassic Park ..... 36
Kasparov's Gambit ..... 36
King's Quest V - VGA ..... 26
King's Quest VI ..... 45
King's Ransom ..... 30

IBM RECREATION

Kingdoms of Germany ..... 35
Kingmaker ..... 35
Klotski ..... 15
Kronolog ..... 41
Kye Deluxe ..... 31
Leisure Suit Larry VI ..... 41
Lemmings ..... 21
Lemmings II ..... 31
Links 386 Pro ..... 39
Links:Banff Springs SVGA ..... 21
Links:Bellfrey Course SVGA ..... 21
Links:Firestone Course SVGA ..... 21
Links:Innsbrook Course SVGA ..... 21
Links:Mauna Kea Course SVGA ..... 21
Links:Pinehurst Country SVGA ..... 21
Lord Of The Rings/Two Towers ..... 35
Lord of the Realm ..... CALL
Lords of Midnight ..... CALL
Lost Treasures of Infocom I ..... 29
Lucas Arts Classic Collection ..... 34
Lucky's Casino Adventure ..... 37
M4 Sherman Tank ..... 35
Magician's Castle ..... CALL
Master of Orion ..... 41
MechWarrior II ..... 46
MechWarrior II Add-On ..... 21
Merchant Prince ..... 37
Metal & Lace - PG13 ..... 29
Metaltech: Earth Siege ..... CALL
Metamorph ..... 21
Microleague Timeout Sports - WIN ..... 21
Microsoft Arcade WIN ..... 27
Microsoft Space Simulator ..... 44
Mig 29 Stand Alone Version ..... 46
Might & Magic Clouds of Xeen ..... 41
Might & Magic DarkSide of Xeen ..... 40
Monopoly Deluxe ..... 35
More Vegas Games WIN ..... 21
Mortal Kombat ..... 36
Mortal Kombat/GamePad Bundle ..... 46
NFL '94 ..... 30
NFL '94 WIN ..... 30
NFL Coaches Football ..... 35
NFL Pro League Football ..... 35
Nano Tank ..... 26
Nomad ..... 35
Open Dialogue WIN ..... 52
Operation Combat 2 ..... 21
Outpost ..... 41
Oxyd Magnum ..... 37
Pacific Air War: 1942 ..... 49
Pacific Strike ..... 49
Pacific Strike Speech Disk ..... 19
Pacific War ..... 45
Perfect General Trilogy ..... 34
Phantasmagoria ..... CALL
Pirates! Gold ..... 39
Police Quest IV ..... 39
Pool Shark ..... 21
Prince of Persia II ..... 41
Privateer ..... 49
Privateer Operations 2 ..... CALL
Privateer Righteous Fire AddOn ..... 21
Privateer Speech Pack ..... 19
Pro Tennis Cup ..... 41
Quarter Pole ..... 30
Quest for Glory IV ..... 38
Raiden ..... 30
Rolly: The Final Round ..... 41
Ravenloft ..... 47


LOOK!

Request Your Free America Online Membership (includes 10 Hours Online) With Any Purchase

## PRO LEAGUE BASEBALL




America's National pastime. With the warmth of springtime, sports fans witness a new birth every year. It comes with a feeling of excitement and that excitement means baseball. Enjoy baseball excitement year round with Pro League Baseball. Supports true modem play with chat mode. Includes both simulation and arcade play modes. Complete statistical printout capabilities. League leaders maintained for all major categories. Create your own teams or edit existing ones.

Micro Sports: DOS **$35**

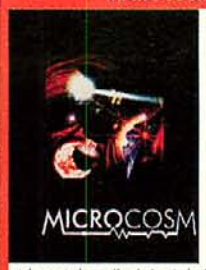
## COMMAND ADVENTURE STARSHIP




Buy a sleek starship to explore regions unknown and extract untold riches from distant galaxies. Avoid pirates and blood-thirsty alien beings who wander the universe, randomly attacking ships like yours. Never the same game twice. Completely regenerate the universe at will. Custom-configure more that 50 ships to your requirements, with more than 80 weapons, shields, and engine systems.

Merit Software: DOS; IBM CD **$39**

## MICROCOSM




A cinematic adventure of exploration and deadly hide and seek. It's a fight for control of the free will of Tiran Korsby. During a routine operation, an implanted, miniaturized brain-manipulation droid is threatening to take control over Korsby's mind. A countering operation must be performed, and thus your mission begins. Features over 500MB of graphics and sound for a rich, varied and life-like inner-body experience. Multiple frame rates of up to 30 frames/second for smooth gameplay and non-stop action.

Psygnosis: IBM CD **$45**

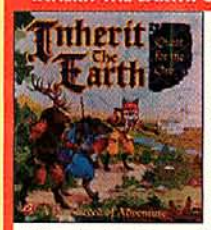
## HARDBALL III DIAMOND COLLECTION




Features digitized players and 256 color VGA graphics. Compile stats as you play. Actual outfield dimensions test your power. Five cameras over the field. Watch instant replays and save the best for your Highlight Reel. The league's best double play combo. Cut-off men take throws. Outfielders back each other up. Team and player editors let you alter everything from team logos to a player's ability. Diamond collection includes Hardball III, Big League Ballpark and MLBPA Player's Disk.

Accolade: DOS **$39**

## INHERIT THE EARTH: ORB QUEST




Join Rif the fox and his companions Okk and Eeah on the adventure of your life. Inherit the Earth will transport you to a world of beauty and intrigue—Earth! The Orb of Storms has been stolen, and Rif is accused. You only have days to help Rif get to the bottom of the mystery of the mission Orb. Your journey takes you to the Wild Lands, through hostile territories and ultimately to the ancient ruins of the legendary Humans.

New World Computing: DOS, IBM CD **$35**

## CARRIERS AT WAR II




Fleet carrier operation in Southeast Asia 1936-1946. This sequel to the hugely successful CARRIERS AT WAR uses a much improved version of the original mechanics. Spans a decade that changed the world. Offers more tension, more excitement, tougher opponents and more dramatic Carrier battles. The uncertainty of war is vividly recreated. Eight scenarios included, some hypothetical, others controversial. Explore all aspects of tactical and strategic combat between Japan and the United States and Great Britain.

SSG: DOS **$39**

## ISLE OF THE DEAD




A South Pacific Island-hopping adventure takes a strange twist as you're forced to crash-land on a jungle island. The good news is you survived the plane crash. The bad news is you're on the Isle of the Dead, which is inhabited with ghoulish zombies and a host of terrifying creatures. Traverse dense jungles and treacherous caves, while exploring the local village to unlock riddles that could aid your escape. If you're lucky, you may even rehabilitate a beautiful zombie babe!

Merit: DOS **$32**

## STAR WARS: TIE FIGHTER




The rebels think the force is with them. Explode the myth. Now you can experience Star Wars from a new point-of-view. From the creators of X-Wing comes TIE Fighter, the sequel that lets you fly for the Empire. Rips through the rebel front in six unique Imperial starfighters. New heart-stopping interconnected battles will envelop you. Enhanced ultra-realistic 3D graphics and gameplay. The dark side of the Force beckons...dare you respond?

Lucas Arts: DOS **$45**

### IBM RECREATION

- Realms of Arkania ..... 34
- Red Crystal ..... 34
- Red Ghost ..... CALL
- Return of the Phantom ..... 35
- Return to Zork ..... 45
- Romance Three Kingdoms III ..... 41
- Royal Flush ..... 37
- Rules of Engagement II ..... 40
- Russian Six Pack ..... 26
- Russian Six Pack WIN ..... 21
- SSN21: Sea Wolf ..... 42
- SVGA Harrier ..... 48
- Sam & Max Hit the Road ..... 34
- Serf City ..... CALL
- Shadow Caster ..... 30
- Shadow of the Comet 2 ..... CALL
- SimAnt WIN ..... 30
- SimCity 2000 ..... 40
- SimCity 2000 WIN ..... 40
- SimCity 2000: Great Disasters ..... 15
- SimCity Classic WIN ..... 26
- SimCity Graphics: Ancient City ..... 15
- SimCity Graphics: Set II ..... 15
- SimFarm ..... 30
- SimHealth ..... 35
- SimLife WIN ..... 30
- Smokin' Guns ..... 26
- Soccer ..... 30
- Solitaire Antics WIN ..... 18
- Solitaire WIN ..... 29
- Solitaire's Journey WIN ..... 35
- Space Hulk ..... 21
- Space Quest V ..... 40
- Spaceward Ho! III ..... CALL
- Spear of Destiny ..... 30
- Spear of Destiny Mission 2 ..... 26
- Spear of Destiny Mission 3 ..... 26
- Spectre VR ..... 35
- Spiral Arm ..... CALL
- Squad Leader ..... CALL
- Star Reach ..... 35
- Star Trek: 25th Anniversary ..... 34
- Star Trek: DSN - The Hunt ..... 41
- Star Trek: J.R. Movie & Sound ..... 21
- Star Trek: Judgment Rites ..... 34
- Star Trek: Starfleet Academy ..... CALL
- Star Trek: The Next Generation ..... 46
- Star Wars Chess ..... 32
- Stonekeep ..... 46
- Street Fighter II ..... 34
- Strike Commander ..... 30
- Strike Commander Speech Pack ..... 19
- Strike Commander Tactical #1 ..... 21
- Strike Squad ..... 37
- Subwar 2050 ..... 35
- Superhero: League of Hoboken ..... 35
- Syndicate ..... 36
- Syndicate:American Revolution ..... 21
- System Shock ..... 56
- Terminator 2029 ..... 27
- Terror of the Deep ..... 35
- The Dig ..... 41
- The Patrician ..... 35
- Theatre of Death ..... CALL
- Theme Park ..... 37
- Third Reich ..... 34
- Tie Fighter Space Combat ..... 45
- Tony LaRussa Baseball II ..... 37
- Tornado ..... 50
- Train Engineer ..... 30

### IBM RECREATION

- Train Engineer WIN ..... 30
- USCF Chess ..... 35
- Ultima Underworld ..... 21
- Ultima Underworld II:Labyrinth ..... 49
- Ultima VII:The Black Gate ..... 48
- Ultima VIII: Pagan ..... 47
- Ultima VIII: Pagan Speech Pak ..... 18
- Ultimate Domain ..... 32
- Victory at Sea ..... 41
- Video Poker for Windows ..... 35
- Vikings: Fields of Conquest ..... 21
- Virtus VR WIN ..... 60
- Wargame Con. Set II: Tanks ..... 41
- Warlords II ..... 39
- Warlords II Construction Kit ..... 30
- Wheel of Fortune Deluxe ..... 35
- Wheel of Fortune Deluxe WIN ..... 26
- When Two Worlds War ..... 34
- Wing Armada ..... 35
- Wing Commander Academy ..... 25
- Wing Commander II w/Speech ..... 25
- Wing Commander III ..... CALL
- Wings of Glory 1917-1918 ..... 46
- Witchworld ..... CALL
- Wizard ..... CALL
- Wizardry Trilogy II (IV/V/VI) ..... 34
- Wolfpack ..... 24
- World Circuit Grand Prix ..... 34
- World War II: Battle S Pacific ..... 34
- World at War: Op. Crusader ..... 41
- X-Wing ..... 39
- X-Wing:B-Wing Tour of Duty ..... 21
- X-Wing:Imperial Pursuit ..... 21
- Zephyr ..... 41
- Zig Zag ..... 30
- Zig Zag WINDOWS ..... 30

### SOUND CARDS

- Audio Magician 16CD ..... 81
- Audio Magician Plus ..... 51
- AudioMan ..... 135
- Digital Sound Pro 16 ..... 112
- Digital Sound Pro 16 Plus ..... 167
- Game Blaster CD 16 ..... 392
- Gravis UltraSound ..... 122
- Gravis UltraSound Max ..... 199
- Gravis UltraSound Midi Adapter ..... 36
- Jazz Soundcard SCSI ..... 139
- Port-Able Sound Plus ..... 107
- Premium 3-D Multi-CD ..... 145
- Premium 3-D SCSI2 ..... 145
- Pro 3-D SCSI2 w/ Wavetable ..... 270
- Pro Audio 16 Basic ..... 97
- Pro Audio Studio 16 ..... 127
- Pro Audio Studio 16XL ..... 329
- Pro AudioSpectrum 16/US Atlas ..... 126
- ReelMagic Life ..... 293
- ReelMagic Multimedia Playback ..... 385
- Roland RAP-10 Audio Producer ..... 462
- Sound Blaster 16 Basic ..... 105
- Sound Blaster 16 MCD ..... 163
- Sound Blaster 16 MCD ASP ..... 191
- Sound Blaster 16 SCSI-2 ..... 181
- Sound Blaster 16 SCSI-2 ASP ..... 219
- Sound Blaster 16 Value Edition ..... 107
- Sound Blaster AWE32 ..... 284
- Sound Blaster DigitalEdge 3x ..... 734
- Sound Blaster Pro Value Ed. ..... 83
- Sound Blaster Value Edition ..... 57
- SoundMan 16 ..... 106
- SoundMan Wave ..... 188


**800-228-7449** EXT. 333 VOICE:508-443-6125 FAX:508-443-5645

**31 Union Ave., Sudbury, MA 01776**

日本の皆様よりのオーダー大歓迎！日本語で FAX:0011-508-443-5645、
又は,CompuServeID:70007,1534で見積りをお問い合わせ下さい。
迅速に,如何なる御要望にも誠意をもってお応え致します。

**FREE UPS GROUND SHIPPING**

**10,000 IN STOCK ITEMS**


### JOYSTICKS/GAMECARDS

- Flight Stand ..... 17
- Flight Stick ..... 36
- Flight Stick Pro ..... 57
- Flightstick PRO Mac ..... 72
- G-Force Flight Yoke ..... 53
- Game Zapper ..... 76
- GameCard III MCA Automatic ..... 41
- Gameport 2000 Up to 80MHz ..... 26
- Genovation Parallel Game Port ..... 30
- Gravis Analog Pro Joystick ..... 33
- Gravis Eliminator Card ..... 23
- Gravis Gamepad Mac ..... 30
- Gravis MouseStick II MAC ..... 59
- Gravis PC Gamepad ..... 21
- Thrustmaster ACM Game Card ..... 26
- Thrustmaster F-16 FLCS ..... CALL
- Thrustmaster Flight Control ..... 59
- Thrustmaster Formula 11 ..... 111
- Thrustmaster Pro Flight Control ..... 101
- Thrustmaster Rudder Pedals ..... 101
- Virtual Pilot Yoke ..... 64
- Y-Cable for 2 Joysticks ..... 9

- AR Partner 570 Speaker System ..... 253
- Altec ACS100 Speakers ..... 124
- Altec ACS200 Speakers ..... 206
- Koss HD-1 Speakers ..... 24
- Koss HD-4 Speakers ..... 39

### CD DRIVES, SPEAKERS & UPGRADE KITS

- Koss HD-6 MPC Speakers ..... 63
- Labtec CS-1000 Speakers ..... 74
- Labtec CS-800 Speakers ..... 32
- Labtec CS-900 Speakers ..... 62
- Labtec SS-700 Speakers ..... 29
- 4PLEX Quad-speed Int. Drive ..... 468
- CDU33A/L CD Complete Kit ..... 471
- CDU33A/L CD Starter Kit ..... 230
- DigitalEdge CD Mult. Kit ..... 725
- Family Deluxe Multimedia Kit ..... 349
- Fusion Double CD Internal Kit ..... 308
- Game Blaster CD 16 ..... 392
- Memphis Multimedia Upgrade Kit ..... 524
- MultiSpin 3XE Ext. 195ms ..... 613
- MultiSpin 3XI Int. 195ms ..... 516
- MultiSpin 3XP Portable 195ms ..... 468
- MultiSpin 4X Pro EXT ..... 999
- OmniCD Upgrade Kit ..... 305
- OmniCD Upgrade Kit EXTERNAL ..... 424
- Premium Deluxe Multimedia Kit ..... 533
- Pro 16 II Multimedia Kit ..... 490
- Pro 16 III Triple Speed Kit ..... 777
- Pro Deluxe Multimedia Kit ..... 735
- ReelMagic CD-ROM Kit ..... 706
- Reno CD-ROM Portable Player ..... 294
- Sensory Starter Upgrade Kit ..... 366
- Sensory System I Int. MM Kit ..... 440
- Super Deluxe Multimedia Kit ..... 417


800 228-7449 - Orders Only, 508 443-6125 - all other business. Sales Dept. Hours - Monday - Friday - 8AM till 8PM, Saturday & Sunday 10AM till 5PM. All other Business - Monday - Friday - 9AM till 5PM. Most orders ship within 24 hours. Temporary shortages are normally filled within 10 days. Books, Memory chips, and some electronic components are not returnable. We ship only to verified billing addresses. International orders welcome. Airborne Express Shipping charges $7 per order up to 6 lbs, $1 per lb. above 6 lbs. UPS ground handling charge-$5 per order. Actual freight charges apply for computers, hard disks, Bernoulli's, tape back-ups, printers, Multimedia kits, monitors, etc. Alaska, Hawaii, outside continental U.S., APO/FPO call for information. Prices subject to change without notice. Some product not available outside the U.S. Please call for more information. Not responsible for errors or omissions. Mastercard, Visa, Discover, American Express, prepaid orders, purchase orders, wire transfer, cash, and cashiers check accepted. Personal and Company checks allow 14 days to clear. No surcharge for credit card orders. Your credit card is not charged until the merchandise is shipped. We check for stolen credit cards. All returns for credit, repair, or exchange must have a return authorization number. Returned orders or ordered wrong items are subject to a 15% restocking fee. We ship latest versions of software available. Over nine years of service. Thousands of satisfied customers. Send your Fax today! All quotes answered immediately. Product covered by manufacturer's warranty. Defective items replaced immediately. All item numbers represent 3.5" floppy, except where noted. Educational, government, and corporate purchase orders welcome.

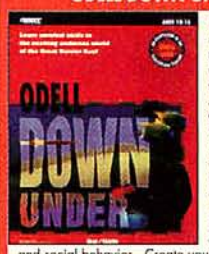
# COMPUTER Express

Since 1985

**800-228-7449** EXT. 606

TOLL FREE ORDER LINE

## ODELL DOWN UNDER




Unlock the mysteries of the exotic undersea world of Australia's Great Barrier Reef. Features facts about any of the 81 life forms from an animal's predator and prey to its special abilities and social behavior. Create your own fish, giving it the perfect balance of speed, endurance, agility and size to increase its changes for a long, healthy life in the Great Barrier Reef. Encourages users to exercise thinking skills and deductive reasoning, while improving reading comprehension. Illustrates a living ecosystem and its daily struggle to say in balance.

MECC: WIN,MAC **$34**

## BUG ADVENTURE




This program is crawling with bugs! Pick from ants, bees, beetles, butterflies, flies, or spiders. Young readers can even improve reading skills with a Talking Storybook. Find out which bug is the loudest, the longest, the fastest, and many other amazing facts.

Knowledge Adventure: DOS, WIN, IBM CD **$40**

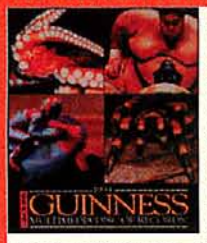
## KID CAD FOR WINDOWS




For ages 7 and up. This 3-D design studio lets you create houses with electronic building blocks that click into place. You can paint and decorate everything in sight, including the kitchen sink! Then fill your customized creation with a huge assortment of people and pets, furniture and ferns—or even a dinosaur. Take a look around! 3-D virtual environment lets you change your perspective. View your house from the back yard or peek through the front door.

Davidson: WIN **$29**

## 1994 GUINNESS DISC OF RECORDS




Explore the world's most definitive source for extraordinary facts and feats. Based on the 1994 Guinness Book of Records, this remarkable CD-ROM contains every word, record, and picture from the world-renown book. Discover unique facts on diverse topics such as Earth and Space, Science and Technology, Arts and Entertainment, Human Achievements, and more. With pictures, movies, and details of every imaginable fact at your fingertips, discovery becomes entertainment itself.

Grolier: IBM CD **$31**

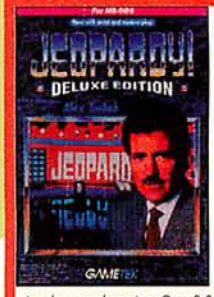
## COMPUTER CARNIVAL




The computer literacy program for children that entertains as it engages them in learning keyboard and mouse skills, creation of computer graphics, computer vocabulary, computer care and even beginning programming skills. Presents exciting games and activities in the context of an irresistible storyline that brings kids back to play again and again. FEATURES: 4 new arcade games. 2 fun interactive carnival booths. 6 sensational shows under the big top. Hall of Fame displays child's name and winning tickets.

ATI: DOS **$24**

## JEOPARDY! DELUXE EDITION




Gametek's new Jeopardy! Deluxe Edition featuring Alex Trebek puts you on stage against computer-generated opponents or up to 2 friends. Choose a category and an amount, and if you can ring in fast enough with the right response you're on your way to becoming the new champion. Over 8,000 questions and answers from televisions longest running game show will provide you with hours of entertainment, from your first question through the Tournament of Champions.

Gametek: DOS, Windows **$35**

### TEST PREPARATION

| | |
|---|---|
| ACT w/Cliff Notes | 30 |
| Biology Studyware | 24 |
| Calculus Studyware | 25 |
| Chemistry Studyware | 24 |
| GMAT w/Cliff Notes | 30 |
| GRE w/Cliff Notes | 30 |
| LSAT w/Cliff Notes | 34 |
| Physics Studyware | 26 |
| SAT I NEW Personal Trainer WIN | 35 |
| SAT I Studyware | 30 |
| Score RX for ACT at Home | 60 |
| Score RX for GRE at Home | 60 |
| Score RX for LSAT at Home | 78 |
| Score RX for SAT at Home | 60 |
| Your Personal Trainer/SAT2 CD | 35 |

### IBM REFERENCE

| | |
|---|---|
| American Heritage Dictionary | 35 |
| Americans in Space CD | 48 |
| Animals: San Diego Zoo CD | 35 |
| BodyWorks 3.0 | 37 |
| BodyWorks 3.0 CD | 39 |
| CNN Newsroom Global View CD | 30 |
| Compton's Encyclopedia CD | 90 |
| Creep Crawlies CD | 42 |
| Cute 'n' Cuddlies | 40 |
| Dictionaries & Languages CD | 13 |
| Dictionary of Living World CD | 91 |
| Dinosaur Adventure CD | 43 |
| Dinosaurs Multimedia Windows1.0 | 52 |
| Dinosaurs! MPC Encyclopedia CD | 46 |
| Discovery CD Pack | 68 |
| Encarta MPC Encyclopedia CD | 92 |
| Forever Growing Garden w/SEEDS | 33 |
| Greatest Book Collection CD | 32 |
| InfoNation - Rating USA to Z | 29 |
| J.F.K Assassination CD | 34 |
| Key Dictionary Plus | 26 |
| MS Dinosaurs Multimedia CD | 52 |
| Orbits:Voyage the Solar System | 20 |
| Webster's Dictionary | 61 |

### MACINTOSH

| | |
|---|---|
| Advanced Spelling Tricks | 30 |
| Algebra | 52 |
| Algebra Blaster Plus | 33 |
| Alphabet Blocks | 30 |
| Amazon Trail | 34 |
| Basic Spelling | 30 |
| Beginning Reading | 29 |
| BodyWorks 3.0 | 41 |
| Calculus Studyware | 24 |
| Dinosaur Adventure | 30 |
| Early Math | 30 |
| Fatty Bear's Birthday Surprise | 31 |
| Fatty Bears Fun Pack | 31 |
| Fine Artist | 33 |
| Kap'n Karaoke | 35 |
| Kid McGee | 21 |
| Kid Pix 2.0 | 42 |
| Kid Pix Fun Pack | 23 |
| Kid's Art Center | CALL |
| Kid's Studio | 35 |
| Kid's Typing | 30 |
| Kid's Zoo | 35 |
| KidDesk | 26 |
| Mac USA 2.0 | 30 |
| Mario Teaches Typing | 30 |
| Math Blaster Plus | 35 |
| Math Rabbit 2.0 | 35 |
| Millie's Math House | 30 |
| Mind Castle | 34 |

### MACINTOSH

| | |
|---|---|
| Multimedia Workshop | 46 |
| My First World Atlas | 30 |
| My Own Stories | 30 |
| Odell Down Under | 34 |
| Oregon Trail | 30 |
| Playroom 2.0 | 30 |
| Putt Putt Goes to the Moon | 31 |
| Reader Rabbit I | 35 |
| Reader Rabbit Ready for Letter | 35 |
| SAT I Studyware | 30 |
| Spell It Plus | 30 |
| StickyBear Reading Room | 35 |

### MAC CD-ROM

| | |
|---|---|
| Advanced Spelling Tricks | 30 |
| Alphabet Blocks | 30 |
| Animal Tales | 42 |
| Basic Spelling | 30 |
| Beginning Reading | 29 |
| Cuckoo Zoo | 44 |
| Eagle Eye Mysteries London | 41 |
| Early Math | 30 |
| Fatty Bear's Birthday Surprise | 41 |
| Fatty Bear's Fun Pack | 31 |
| Kid's Zoo | 41 |
| Lifemap: Animals | 27 |


**Admit One Free**



**GO TO THE MOVIES**

**FREE!**

For <u>every</u> $100 purchased, request a free movie pass from **COMPUTER EXPRESS.**


### MACINTOSH

| | |
|---|---|
| Fatty Bear's Birthday Surprise | 41 |
| Fatty Bear's Fun Pack | 31 |
| Kid's Zoo | 41 |
| Lifemap: Animals | 27 |
| Lifemap: Animals w/Backbones | 27 |
| Multimedia Workshop | 46 |
| My Silly CD of ABC's | 21 |
| My Silly CD of Counting | 21 |
| Super Solvers:Out Numbered | 35 |
| Super Solvers:Spellbound | 35 |
| Treasure MathStorm! | 34 |
| TreeHouse | 35 |
| Typing Tutor 6 | 30 |
| VocabuLearn French I | 35 |
| VocabuLearn Italian I | 34 |
| VocabuLearn Spanish I | 30 |
| Where in America's Past | 29 |
| Where in Space Deluxe | 40 |
| Where in Time is Carmen | 29 |
| Where in the World - Deluxe | 46 |
| Where in the World is Carmen | 29 |
| Word Attack 3 | 30 |
| Word Attack 3 | 30 |
| ZooKeeper | 35 |

### MACINTOSH

| | |
|---|---|
| EZ Cosmos 4.0 | 42 |
| Lifemap: Animals w/Backbones | 27 |
| Multimedia Workshop | 46 |
| My Silly CD of ABC's | 21 |
| My Silly CD of Counting | 21 |
| New Kid on the Block | 34 |
| Peanuts: Years to Learn | 38 |
| Richard Scarry Best Neigh. | 30 |
| Richard Scarry Busiest Neigh. | 30 |
| Vitsie Visits Outer Space | 30 |
| Vitsie Visits the Ocean | 30 |
| World Alive | 30 |
| Zoo: Behind the Scenes | 34 |

### TYPING

| | |
|---|---|
| Easy Working Typing | 12 |
| Easy Working Typing WIN | 21 |
| Mario Teaches Typing | 26 |
| Mavis Beacon Teaches Typing CD 3.0 | 35 |
| Mavis Beacon Typing 3.0 | 30 |
| Mavis Beacon Typing CD | 34 |
| Typing Tutor 6 | 30 |
| Typing Tutor V Plus | 30 |
| Typing Tutor V Plus WIN | 30 |
| Typing Tutor WIN6 | 30 |

### SCIENCE & HISTORY

| | |
|---|---|
| Amazon Trail | 34 |
| Body Illustrated | 45 |
| Bug Adventure | 30 |
| Bug Adventure CD | 41 |
| Company of Whales CD | 32 |
| ComputerWorks | 28 |
| Concentrate | 25 |
| Dandy Dinosaurs CD | 48 |
| DinoPark Tycoon | 34 |
| Discover Space | 34 |
| Discoverers CD | 26 |
| EZ Cosmos 4.0 | 42 |
| Earth Treks | 30 |
| Eco Quest Search for Cetus CD | 30 |
| Ecology Treks | 30 |
| Great Computer Adventure | 23 |
| Jurassic Dinosaurs CD | 30 |
| Jurassic Dinosaurs WIN | 30 |
| Kid's Zoo CD | 46 |
| Kid's Zoo DOS/WIN | 34 |
| Learn About the Human Body | 15 |
| Mario's Time Machine | 30 |
| No. 11 Downing Street | 43 |
| Oceans Below CD | 29 |
| Odell Down Under WIN | 34 |
| Oregon Trail Deluxe | 34 |
| Oregon Trail Deluxe CD | 41 |
| Pepper's Adventures in Time | 30 |
| Planetary Taxi CD | 29 |
| Prehistoria CD | 41 |
| Quarky & Quaysoo's Science | 30 |
| Science Adventure 2.0 | 35 |
| Science Adventure II CD | 51 |
| Space Adventure | 34 |
| Space Adventure CD | 50 |
| Space Adventure II CD | 50 |
| Team NFL Magazine CD | 21 |
| Time Lapse CD | 15 |
| Time Riders-American History | 35 |
| Time Treks | 30 |
| Undersea Adventure WIN | 35 |
| Webster's Dictionary WIN | 61 |
| Where in America's Past Carmen | 29 |
| Where in Space Carmen Deluxe | 40 |
| Where in Time Carmen? | 30 |
| Where in the World is Carmen? | 30 |
| Wild Science Arcade w/T-SHIRT | 23 |
| Zoo: Behind the Scenes CD | 34 |
| ZooKeeper | 35 |
| Zugs Race Through Space | 23 |

### MATH

| | |
|---|---|
| 2nd Math | 26 |
| Algebra Blaster 3 | 34 |
| Algebra Blaster Plus | 29 |
| Algebra | 52 |
| Algebra By Example | 27 |
| Bull's Eye Math | 23 |
| Calculus WIN | 51 |
| Championship Blackjack | 23 |
| Chemistry Works DOS/WIN | 21 |
| Cruncher WIN | 35 |
| Dinosoft Addition & Subtract | 13 |
| Dinosoft Math Flashcards | 12 |
| Dinosoft Multiply & Divide | 13 |
| Early Math WIN | 30 |
| Geometry Concepts | 35 |
| Kid Cad WIN | 30 |
| Learn to Add and Subtract | 15 |
| Learn to Multiply and Divide | 15 |
| Line & Shape Eater CD | 27 |

## JONNY QUEST




Take off with team Quest as they follow the trail of the stolen Splinter of Heaven. What does this ancient bit of meteorite have to do with the sudden fluctuations in the Earth's magnetic field? Why has The Splinter of Heaven and other Mayan artifact disappeared from the jungles of Guatemala? Is this all pat of some sinister plot? FEATURES: 3 D raised perspective for exploration, an icon-controlled interface, combat sequences, a full cast of interactive characters, a full soundtrack, stunning graphics, and literally hours of entertainment.

Stone & Associates: DOS **$26**

## GAMEZAPPER




Converts the VGA output from your PC to a video signal so you can play all your favorite PC games on any TV set. Display on-line services like Prodigy, America Online, and CompuServe. Includes $150 worth of FREE games: Prince of Persia, JetFighter II, and Spectre Challenger! Supports 640x480 VGA resolution in 256 colors, outputs NTSC video in RCA composite and S-VHS super video standards. Includes A/C Power Supply, 6-foot RCA cable, 6-foot S-VHS cable and a VGA Y-cable. Supports TV Auto Blanking, Toggling between VGA monitor and TV display.

ADS: IBM **$79**

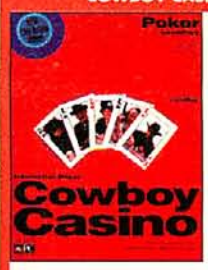
## 20TH CENTURY MURDER




A powerful educational tool, teaching law enforcement, criminal justice, psychology, and history. Five thousand plus pages of the most sensational murders of this century. Follow each shocking case - the crimes, investigations, trials, and punishments - of criminals like Ted Bundy and Jeffrey Dahmer. Dynamic multimedia presentation offers a chilling glimpse into the dangerous world of murders and the twisted motivations behind their unconscionable acts.

PowerCD: IBM CD, Mac CD **$20**

## COWBOY CASINO




Five wisecracking card sharks teach you high stakes poker in a real Old West saloon. Get hit with a stream of smart-aleck remarks every time you make a mistake. And while you're laughing, you'll learn: Five-card Draw, Five-card Stud, Seven-card Stud, Texas Hold'em and more. Learn the odds of filling a range of winning hands, when to open, raise or fold, and when and how to bluff. Easy-to-use controls let you cover all aspects of each game one step at a time, as often as you want.

IntelliPlay: IBM CD **$33**

## HUMAN CALCULATOR




Math is essential and math is cool. Can you figure cube roots instantly in your head? If people tell you their date of birth, can you tell them on what day of the week they were born. Let The Human Calculator teach you how in a new, fun way. As a result, kids can solve addition, subtraction, multiplication, and division problems in their head, and learn some great math tricks which will impress everyone.

Compton's New Media: IBM CD **$26**

## SAM & MAX HIT THE ROAD




Grab your nightstick, squeal like a siren, and hit the road with Sam & Max, Freelance Police, as they attempt to crack their toughest case. Sam, a canine shamus, and Max, a hyper-kinetic rabbity thing, are traveling across America, hot on the trail of a runaway carnival bigfoot. A deranged animated adventure. Endless hours of fun playing mini-games like Wak-A-Rat and CarBomb. CD-ROM version includes live action dialogue between characters. Free handbook inclosed (while supplies last).

LucasArts: IBM CD **$39**

## STAR TREK COLLECTIBLES GUIDE CD




Designed for all types of Star Trek collectors. Browse from over 400 color and black & white photos of collectibles from the original Star Trek T.V. series, six Star Trek movies and the current Star Trek: The Next Generation T.V. Series. Detailed listings for over 3000 collectibles, including the issue and current market prices. Need to learn about a Tricorder made by Mego? Just click and browse!

MCS: IBM CD **$32**

## PRINT ARTIST




Print Artist will help you get the message across—easily, beautifully, expressively. It's so simple that beginners can easily make beautiful and useful cards, signs, posters, banners and more. And, it's so flexible, it grows with your ability. Quickly, easily create your own signs, cards, banners, and more. No drawing skill required. Choose from over 500 professionally designed layouts in both color and black and white to use "as is" or customize to your heart's content. Export graphics and layouts to popular graphic formats.

Maxis: DOS, Windows **$35**

### MATH

- Math Blaster Spot WIN ..... 35
- Math Blaster Spot/Kid Works II ..... 44
- Math Blaster WIN ..... 34
- Math Rabbit Enhanced ..... 29
- Mathology ..... 30
- Mega Math ..... 30
- Mental Math Games 2.0 ..... 30
- Millie's Math House ..... 30
- Operation Neptune ..... 35
- StickyBear Math Tutor ..... 26
- Super Solvers:Midnight Rescue ..... 30
- Super Solvers:Out Numbered ..... 30
- Treasure MathStorm! WIN ..... 34
- Treasure Mountain ..... 34
- What's My Angle ..... 29
- Young Math ..... 26

### READING

- Aesop's Fables CD ..... 21
- Aladdin and His Lamp CD ..... 32
- Always Arthur CD ..... 30
- Amanda Stories CD ..... 18
- Arthur's Teacher Trouble CD ..... 35
- Bailey's Book House ..... 30
- Beauty and the Beast CD ..... 27
- Beginning Reading CD ..... 29
- BookMaster for Speed Reading ..... 29
- Cinderella CD ..... 21
- Dinosoft Phonics ..... 12
- Dragon Tales CD ..... 35
- Follow the Reader ..... 30
- Gus Goes to Cybertown CD ..... 35
- Heather Hits Homeron CD ..... 21
- Just Grandma & Me CD ..... 35
- Learn to Read in Wordland ..... 21
- Long Hard Day at the Ranch CD ..... 21
- Mind Castle ..... 34
- Mud Pubble CD ..... 21
- New Kid on the Block CD ..... 34
- Once Upon A Time II ..... 30
- Paper Bag Princess CD ..... 21
- Peter and the Wolf CD ..... 27
- Phonics Plus ..... 26
- Reader Rabbit I ..... 35
- Reader Rabbit II WIN ..... 34
- Reader Rabbit III ..... 34
- Reading Adventures in Oz ..... 34
- Reading and Me Talking ..... 26
- Ready, Set, Read WIN ..... 30
- Richard Scarry Best Neigh. CD ..... 30
- Richard Scarry Busiest Neigh. CD ..... 30
- Rusty & Rosy Volume 1 WIN ..... 30
- Rusty & Rosy Volume 2 WIN ..... 30
- Scary Poems for Rotten Kids CD ..... 21
- School House: 30 Programs ..... 15
- Sleeping Beauty Storybook CD ..... 27
- Sound It Out Land II CD ..... 30
- Speed Reader WIN ..... 30
- StickyBear Reading Tutor ..... 30
- Tale of Benjamin Bunny CD ..... 21
- Tale of Peter Rabbit CD ..... 21
- Talking Classic Tales CD ..... 56
- Talking Jungle Safari CD ..... 50
- Talking Phonics Plus ..... 30
- Tell Tale Heart CD ..... 34
- Thomas' Snowsuit CD ..... 21
- Tortoise & The Hare CD ..... 35
- Treasure Cove ..... 34
- Ugly Duckling CD ..... 25
- Who Wants Arthur? CD ..... 30
- Zugs Dinosaur World ..... 23

### CREATIVITY

- Aladdin Print Kit ..... 15
- Animation Studio WIN ..... 73
- Betty Crocker Boys & Girls ..... 18
- Children's Writing/Pub Center 1.5 ..... 39
- Creation Stories CD ..... 32
- Creative Writer WIN ..... 33
- Fine Artist ..... 45
- Hanna Barbera's Animation Shop ..... 45
- Kap'n Karaoke WIN ..... 35
- Kid Cuts ..... 25
- Kid Doodle WIN ..... 21
- Kid Fun CD ..... 29
- Kid Pictures ..... 21
- Kid Pix 2.0 ..... 42
- Kid Pix Fun Pack ..... 23
- Kid Rhymes ..... 21
- Kid Works II ..... 34
- Learn to Play Guitar CD ..... 30
- Lenny's Music Toons WIN ..... 30
- Logo Writer ..... 57
- MetroGnomes' Music ..... 30
- Miracle Piano System ..... 269
- Multimedia Starter Pak ..... 21
- My Computer Diary WIN ..... 27
- My Own Stories ..... 30
- PC Crayon ..... 38
- Peter Pan:Story Painting CD ..... 30
- Print Artist WIN ..... 35
- Print Shop Deluxe 1.2 ..... 46
- Print Shop Deluxe Comics ..... 24
- Print Shop Deluxe Companion ..... 35
- Print Shop Deluxe Companion WIN ..... 35
- Print Shop Deluxe Sampler ..... 27
- Show & Tell for Kids ..... 30
- Sound Source ..... 29
- Story Book Weaver ..... 30
- Student Writing Center CD ..... 52
- Wild Learning Safari ..... 23

### SPELLING

- Advanced Spelling Tricks CD ..... 30
- Advanced Spelling Tricks WIN ..... 30
- Alphabet Blocks WIN ..... 30
- Basic Spelling CD ..... 30
- Lan Words WIN ..... 26
- Mario's Fun with Letters ..... 26
- Mickey's ABC's Enhanced ..... 21
- Spell It 3 ..... 30
- Spell It Plus ..... 30
- Super Solvers:Spellbound CD ..... 30
- Word Attack 3 ..... 30
- Word Munchers ..... 21
- Word Tales CD ..... 31
- Yobi's Spelling Tricks WIN ..... 30

### GEOGRAPHY

- Across the USA ..... 15
- Discovering America ..... 34
- Eagle Eye Mysteries London CD ..... 41
- Expert Maps ..... 12
- Lost Tribe ..... 26
- My First World Atlas ..... 30
- Mystery at Museums w/T-SHIRT ..... 23
- PC Globe Maps & Facts CD ..... 41
- PC USA 3.0 ..... 29
- Picture Atlas of the World CD ..... 60
- Scavenger Hunt: Africa CD ..... 30
- Speed CD ..... 26
- Where in USA Carmen ..... 29
- Where in World Deluxe CD ..... 55
- Where in the USA Deluxe ..... 46
- World Atlas 4.0 WIN ..... 45


**800-228-7449** EXT. 606 VOICE:508-443-6125 FAX:508-443-5645

**31 Union Ave., Sudbury, MA 01776**


日本の皆様よりのオーダー大歓迎！日本語で FAX:0011-508-443-5645、
又は,CompuServeID:70007,1534で見積りをお問い合わせ下さい。
迅速に,如何なる御要望にも誠意をもってお応え致します。

**FREE UPS GROUND SHIPPING**

**10,000 IN STOCK ITEMS**

### EARLY LEARNING

- AJ World of Discovery ..... 15
- Alphabet Blocks CD ..... 30
- Animal Tales CD ..... 42
- Backyard ..... 30
- Barney Bear Goes to School ..... 26
- Berenstain Bears Fun LunchPak ..... 26
- Berenstain Bears Junior Jigsaw ..... 18
- Berenstain Bears Learn At Home ..... 26
- Buster's First Thunderstorm CD ..... 30
- Computer Carnival ..... 18
- Cuckoo Zoo CD ..... 44
- Dr. T's Sing-A-Long Kids CD ..... 26
- Dr. T's Sing-A-Long WIN ..... 26
- Fatty Bear's Fun Pack ..... 31
- Fatty Bears Birthday Surprise ..... 31
- Fatty Bears Fun Pack CD ..... 31
- First Letters and Words ..... 10
- First Shapes ..... 10
- Fisher Price Classics ..... 26
- FisherPrice Picture Dictionary ..... 26
- Kid Desk ..... 26
- Kid Keys ..... 30
- Kid McGee ..... 21
- Kids Stuff ..... 15
- Learning At Home Vol. Two CD ..... 26
- Legend of Oz CD ..... 52
- Mario Early Years Collection CD ..... 30
- Mario Preschool Fun ..... 26

### EARLY LEARNING

- Mario's Fun with Numbers ..... 26
- Mcgee Series Bundle ..... 30
- Memory Lane ..... 15
- Mickey's 123's Enhanced ..... 21
- Mickey's ABC's Enhanced ..... 21
- Mickey's Jigsaw Puzzles ..... 18
- Mixed Up Fairy Tales ..... 21
- Mixed Up Mother Goose CD ..... 30
- My Letters, Numbers and Words ..... 26
- My Silly CD of ABC's CD ..... 21
- My Silly CD of Counting CD ..... 21
- Number Munchers ..... 21
- Peanuts: Yearn to Learn CD ..... 38
- Playroom 2.0 ..... 29
- Power Hits Kids ..... 30
- Putt Putt Goes to the Moon CD ..... 42
- Putt-Putt Fun Pack ..... 21
- Putt-Putt Joins the Parade ..... 31
- Race the Clock CD ..... CALL
- Scooter's Magic Castle ..... 32
- Slater & Charlie Go Camping ..... 30
- Snoopy's Game Club ..... 23
- Stickybear Preschool ..... 30
- Stickybear Preschool CD ..... 30
- Treasure Cove CD ..... 34
- TreeHouse ..... 35
- Vitsie Visits Outer Space CD ..... 30
- Word Munchers ..... 21

800 228-7449 - Orders Only, 508 443-6125 - all other business. Sales Dept. Hours - Monday - Friday - 8AM till 8PM, Saturday & Sunday 10AM till 5PM. All other Business - Monday - Friday - 9AM till 5PM. Most orders ship within 24 hours. Temporary shortages are normally filled within 10 days. Books, Memory chips, and some electronic components are not returnable. We ship only to verified billing addresses. International orders welcome. Airborne Express Shipping charges $7 per order up to 6 lbs, $1 per lb. above 6 lbs. UPS ground handling charge-$5 per order. Actual freight charges apply for computers, hard disks, Bernoulli's, tape back-ups, printers, Multimedia kits, monitors, etc. Alaska, Hawaii, outside continental U.S., APO/FPO call for information. Prices subject to change without notice. Some product not available outside the U.S. Please call for more information. Not responsible for errors or omissions. Mastercard, Visa, Discover, American Express, prepaid orders, purchase orders, wire transfer, cash, and cashiers check accepted. Personal and Company checks allow 14 days to clear. No surcharge for credit card orders. Your credit card is not charged until the merchandise is shipped. We check for stolen credit cards. All returns for credit, repair, or exchange must have a return authorization number. Returned orders or ordered wrong items are subject to a 15% restocking fee. We ship latest versions of software available. Over nine years of service. Thousands of satisfied customers. Send your Fax today! All quotes answered immediately. Product covered by manufacturer's warranty. Defective items replaced immediately. All item numbers represent 3.5" floppy, except where noted. Educational, government, and corporate purchase orders welcome.

# NO MORE GAMES



TFX™
TACTICAL FIGHTER EXPERIMENT

**You're finished with training...** Had your fun and games. Now it's time to face reality in the most sophisticated aerial combat simulation ever created for your PC—TFX: Tactical Fighter Experiment.

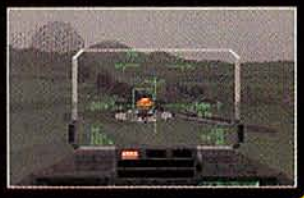
Grab the controls of any of three USAF-spec flight models and spread democracy over five million square miles of topographically accurate landscape.

Equipped with ASRAAMs, Mavericks, M61s, laser-guided GBUs...you're fully loaded to tackle more than 200 "real-world" campaigns, based on today's geopolitical realities. And to keep you sweating bullets, from Somalia to Sarajevo, the skies are swarming with AI-programmed bogeys that'll make you pay for your mistakes...with your life.

Log on and engage in TFX. This time, you're not just playing games.







ocean

Ocean of America
1855 O'Toole Avenue, Suite D-102
San Jose, CA 95131
(408) 954-0201

TFX © 1993 Ocean of America. All rights reserved.
Ocean is a registered trademark of Ocean Software Limited.

**WIN the TFX "Be A Real Fighter Pilot" Contest. See Package for Details.**

# Turnin' and Burnin' On-Line

TIRED OF FLAMING COMPUTER PILOTS BY THE DROVES? CHECK OUT THE MULTIPLAYER FURBALLS THAT ARE HEATING UP THE NETWORKS.

by Tom "KC" Basham




WELCOME TO BOGEY'S BAR & GRILL, AN INFORMAL SALOON for fighter pilots and sim drivers of all stripes to gather the latest intelligence between missions. Although we'll focus on military and civilian flight simulations, we'll occasionally look at naval warfare simulators, submarine simulators, and driving simulators. We'll discuss FLIGHT SIMULATOR 5 navigation techniques; talk about evading Russian torpedos in SEAWOLF; see how the real AWG-9 radar works versus concessions made in F-14 FLEET DEFENDER; and talk about handling the killer turns in INDYCAR RACING. Essentially, if it's a vehicle the player controls in the first person and it attempts to model the real world to some extent, it's fair game. This month, the game is combat simulation and it's on-line.

## REACH OUT AND ATTACK SOMEONE

Demand for multiplayer flight sims continues to grow, despite less-than-enthusiastic support from most game publishers. Fortunately, three on-line services, CompuServe, GEnie and The Imagination Network, offer a variety of flight simulation services with varying features, reliability, and prices.

### RED BARON (THE IMAGINATION NETWORK)

INN supports **Dynamix'** RED BARON WWI flight sim in multiplayer mode. Although an older sim, RED BARON continues to hold its own in terms of realism and game play.

Once you've logged into INN, moved to the appropriate "land" (an INN term for an individual forum), and selected a "place" (a particular section in a land), you can jump into a queue. In the queue, you can issue challenges for 1 on 1, 2 on 1, or 2 on 2 matches. The challenging player sets several options, including aircraft type. If the challenged player(s) accepts, INN places the players on a waiting list. While waiting, you can chat with other players in that "place."

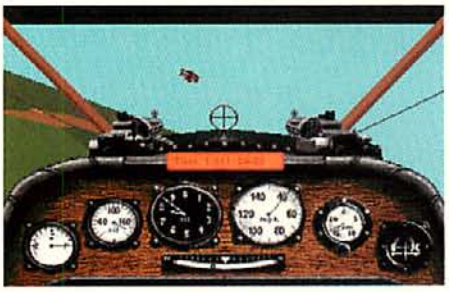
Once in the electronic air, RED BARON players will find that the on-line version is quite different than they are used to. Most of these differences are negative ones, although the current INN version (ver 2.3) is somewhat better than its predecessors. The first problem is that bullets have unlimited range. Forget trying to disengage from a fight and run—the bad guy's bullets can find you from several miles away. Second, there are no midair collisions. Third, MPRB suffers

## ON THE RADAR

Spectrum HoloByte plans to release an as yet untitled flight sim by Christmas of '94. Expected to be of moderate difficulty, it will feature a multimedia approach to training, offer a storyline between missions like that in STRIKE COMMANDER (but with more emphasis on character interaction), and involve the MicroProse design team in handling the avionics. It may even have a MicroProse aircraft within the Spectrum game. Spectrum is also working on a flight sim with a high level of complexity. FALCON 4 (working title) will ship sometime in early '95. It will use the same basic AI as FALCON 3.0 for air-to-air encounters, but the air-to-ground encounters will be significantly upgraded. Ground units will follow the standard military doctrine of an integrated defense. Missions will also be more realistic in structure and, as a flight leader, you will be able to follow up on TOOs (targets of opportunity), even if you need to call in a tanker to refuel. Both sims will feature a new Electronic Battlefield component which will support modem and network play.

joystick ailments, with many people having problems with two-joystick combinations. The worst of it, though, are *warping* and *delays*.

*Warping* is the sudden erratic movement of an object caused by timing delays between two machines connected through a network. *Delay* describes events happening on one machine several seconds after they happen on the other machine. At 2400 baud, INN's primary connect rate, warping isn't too bad, but the delay effects can completely ruin the experience. INN runs RED BARON individually on each player's computer, handling network updates every few seconds. For example, say you slide behind your opponent's six preparing to fire, when you realize you're about to overshoot. Unbeknownst to you, the network updates both player's games at this instant. Next, you cut throttle to slow down and prevent an overshoot while your adversary also cuts throttle to slow down and force you to fly past him. Since the last update just occurred, though, your machine doesn't know the other player reduced throttle, and calculates his next position based upon his previous velocity. It then paints his aircraft flying out in front of you on your screen.



**TRIPLANES ON HIGH** Tailing an enemy should be easy in on-line RED BARON due to the slower frame rate, but this isn't always the case.

Meanwhile, your opponent's PC doesn't know that you slowed down, so it shows your aircraft flying out in front as your adversary decelerates. Your opponent pulls the trigger and scores a hit, prompting a network update. Suddenly, even though the bad guy is in front of you and pointing away, his bullets hit you. Flying textbook tactics against the opponent in front of you will result in your electronic death 90% of the time. INN now supports 9600 baud, which should alleviate some of these problems. 9600 baud nodes are rare, though, and are often long distance calls.

INN's pricing scheme is $9.95 per month for five hours, plus $3.50/hour for each additional hour. Although these rates are competitive with GEnie, the quality of INN MPRB is not. For more information call 1-800-Sierra1.

### SVGA AIR WARRIOR (GENIE)

GEnie supports **Kesmai's** SVGA AIR WARRIOR (AW). GEnie takes a different approach from INN. Genie supports large arenas; some designated as training areas, some as limited-realism areas, and some as full-realism areas. Supporting AW's WWII theme, the various arenas are defined as either "Pacific" or "European" for several days at a time, and you can only fly aircraft that saw service in that theater.

Once in a theater, you choose one of three countries to fly for. You can join a squadron of other players from your country, but it is not required. Each country has a territory containing several airfields, factories, bridges, etc. On-line play is a constant war among the three nations to destroy or capture each other's bases. You begin by choosing an airfield and moving to "the briefing room." In the briefing room you can chat with other players there or in flight. You can choose from a number of different aircraft, including bombers. You can even play a gunner on a bomber flown by someone else, drive a tank, or fly as an observer with someone else.

Once in the air, you'll most likely find yourself in the middle of the largest electronic furball you have ever seen. There may be 15 or 20 people flying for each country, *all at the same time!* The radio allows communication between players, and through channel selection you can communicate with all players, only with your countrymen, only with your squadron, or only with your wingmen. Jargon-filled messages moves through your text window calling out bandits, cries for help, all's clear, and kill counts.



**FLY THE UNFRIENDLY SKIES** While shooting down enemies in Air Warrior, you may taunt them at your discretion.

On-line AW is a complex, highly supported system. New players can invest in training, fly at limited realism, or go for the max realism impact. Primarily played at only 2400 baud, GEnie suffers no delay, but it does have some warping effects. The warping can make shooting tricky, but not impossible. AW has a much steeper learning curve than RED BARON, but pays off with significantly more complex play.

GEnie has three main disadvantages. First, the on-line AW environment is complex, and it takes time to learn the ropes and jargon. Second, not everything is friendly in the electronic skies. While the vast majority of players are very friendly and helpful, there is a vocal minority who feel pride in verbally assaulting everyone they encounter, especially new players. Most of them claim their verbal nonsense is some form of combat tactic. Fortunately, this noise can be squelched. Third, GEnie is expensive. Similar to INN, GEnie charges $8.95 per month for 4 hours, plus $3.00/hour for each additional hour. Playing during prime business hours warrants a double-price surcharge. Although the complex environment makes on-line AW very entertaining, the steep learning curve and high cost render it impractical for casual users.

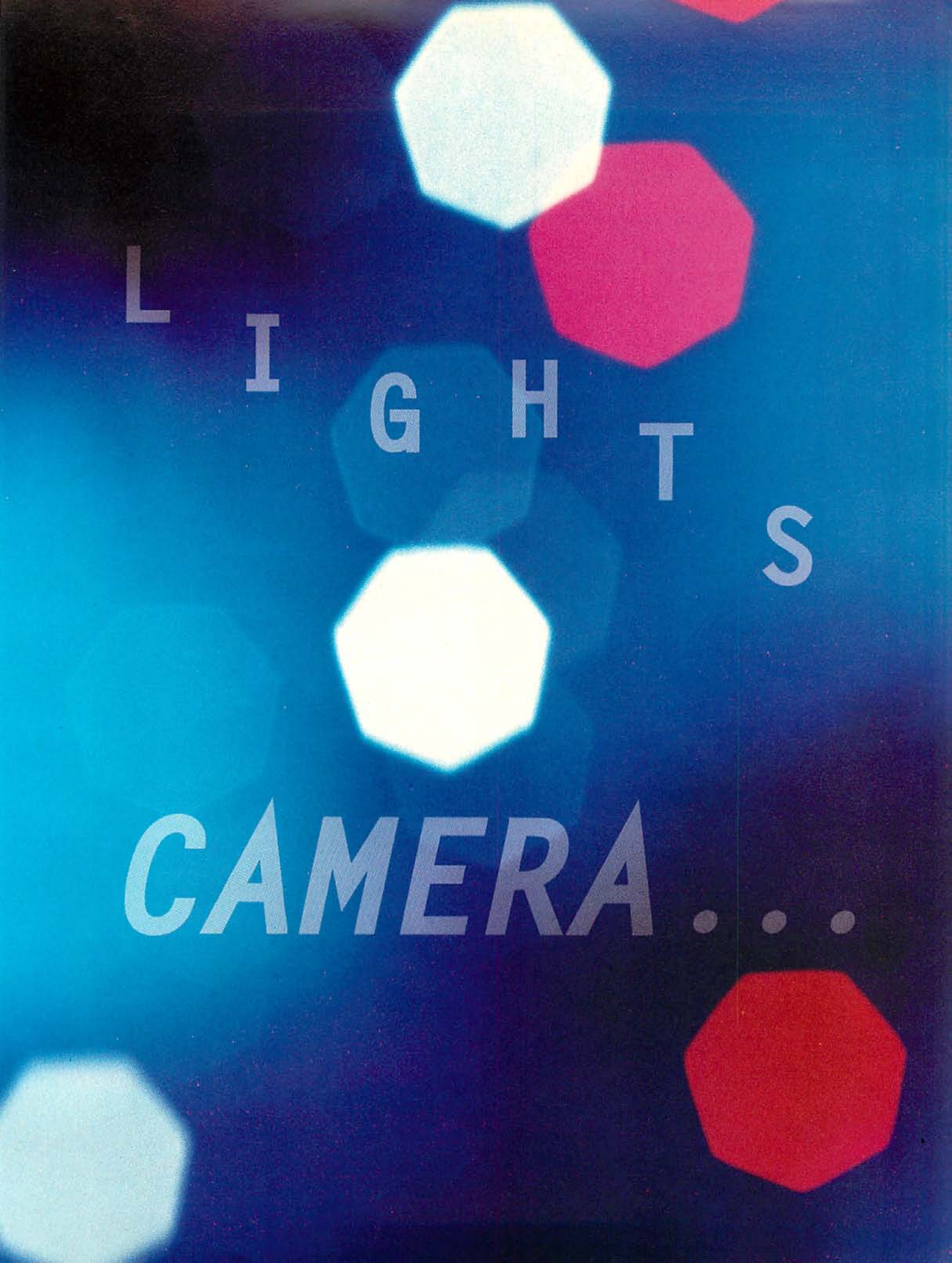
For more information, call 1-800-638-9636.

### FALCON CHALLENGE LADDER (COMPUSERVE)

CompuServe does not support multiplayer flight sims in the same sense as GEnie. More akin to INN, CIS provides a 2400 baud connection service for FALCON 3.0 players for $3 per hour, alleviating long distance surcharges for players in remote areas. Unfortunately, FALCON 3.0 is nearly unplayable at 2400 baud due to warping effects. CompuServe also supports a "waiting room" where you can find willing FALCON 3.0 players around the clock. Finally, CompuServe also hosts a FALCON 3.0 head-to-head Challenge Ladder. The ladder is usually played by way of 9600 baud modem connection, with CIS being used only as a challenge and records-storage administrator. Competition is tough and the Challenge Ladder is no place for the squeamish.

CompuServe rates aren't cheap, however. Prices are either $8.00/hour or $12.80/hour for 2400 baud, depending on your billing option. For more information, call 1-800-848-8990.

In summary, GEnie's AIR WARRIOR offers the most comprehensive entertainment, but requires more training and commands a premium price. INN offers an entertaining, but flawed, rendition of RED BARON. CompuServe doesn't offer a comparable service, but is a host for challenging head-to-head FALCON 3.0 competition. So enlist where your interests lie, and never let "KC" Basham get on your six.


LIGHTS
CAMERA....

BUREAU 13™

There's a plot to undermine the government. through the manipulation of men and their. machines by paranormal and supernatural. phenomena. It's your job to prevent it from. happening. You'll wind your way through a. world full of obstacles. human and. otherwise. where your ability to interpret. the situation at hand will determine your. mission's success or failure..



INTERA

DON'T BLAME US IF YOU



ASSAULT ON EVEREST™

This seamless blend of history. and imagination pits you against. an intimidating array of. opponents. Ancient myths. lost. legends. hidden caves. and the. most unforgiving mountain in. the world. Everest. Only the. fittest will survive to discover. the secret of the unidentified. object which has crashed near. the summit..

HELL: A CYBERPUNK THRILLER™

It's been discovered who has the power. to condemn man to hell: The Government.. They're after you for committing sins. against the state. and on the path to. proving your innocence. you must battle. demons amid a cyber world of sinister. deceit and ruthless evil. Even in victory. it's a near-death experience..





STAR CRUSADER™

The battlefield is outerspace, which is swarming with flying battleships armed with futuristic weaponry. In the middle of stellar chaos, you'll be forced to choose a side: the territory-conquering Gorene Empire, or the alien alliance. Either one could lead to victory. Or death.

CTION

NEVER COME BACK TO REALITY



BILL COSBY'S PICTURE PAGES™

From PBS broadcasts to a Nickelodeon run of nine years to over 110 million Picture Pages Workbook sales, one of the most widely acclaimed and thoroughly enjoyed children's edutainment tools is now available on CD ROM. It not only helps them learn, but teaches them how to learn.

When Take 2 software enters your computer, you go in with it...winding your way through hyper-real environments that push role-playing, simulation, and edutainment beyond known boundaries. All created by advanced technologies that enhance the experience in ways you've never seen or felt before. It's a barrage of entertainment, adventure and education emerging this fall that will thrust you into the Take 2 experience. It starts with interaction. You'll find there is no end.

TAKE 2

INTERACTIVE SOFTWARE

*Circle Reader Service #184*

© 1994 Take 2 Interactive Software, Inc. STAR CRUSADER, ASSAULT ON EVEREST, HELL: A CYBERPUNK THRILLER, BUREAU 13, and TAKE 2 INTERACTIVE SOFTWARE are registered trademarks of Take 2 Interactive Software, Inc. PICTURE PAGES is a registered trademark of Picture Pages, Inc.

# Predator

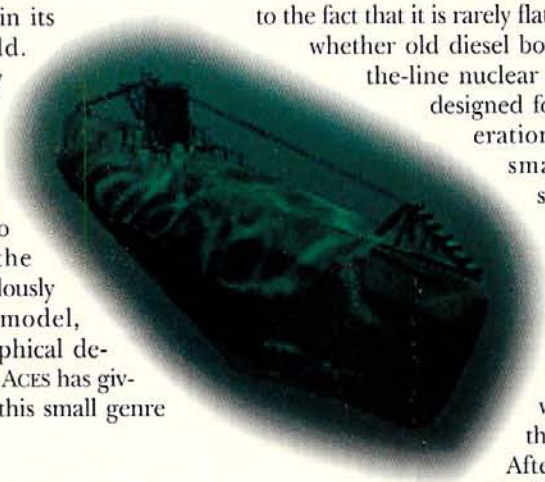
*Stalk The Seas Of WWII With Dynamix' Aces Of The Deep*

**by Kevin Turner**



IT WAS DURING A LONG MEDITERRANEAN PATROL ON THE USS SNOOK, AN SSN 592 FAST-ATTACK SUB, WITH A BOATload of sun-starved submariners, that I first saw the movie *Das Boot*. As you might expect, submariners are a somewhat irreverent and rowdy lot, the kind of people who can turn *Brian's Song* into the funniest movie ever made. *Das Boot* was the first movie we ever sat through in complete silence.

ACES OF THE DEEP (ACES) has a lot in common with *Das Boot*. Not only is it a chilling, historically accurate portrayal of German U-boat experiences in the Atlantic, but, like the movie, it is able to totally immerse you in its claustrophobic world. Even with my many years of experience with submarines, I learned new things about U-boats almost without realizing it, so absorbed was I in the game. With its meticulously crafted simulation model, and its stunning graphical depiction of that model, ACES has given me new hope for this small genre of games.



### THE BELLY OF THE WHALE

As you enter the control room, you are presented with a true-to-life representation of U-boat instrumentation. Control of the sub is simply a matter of clicking on an instrument, be it periscope, depth gauge, or compass. When surfaced, moving to the periscope or the bridge may have you reaching for your Dramamine, as the ocean undulates with uncanny realism.

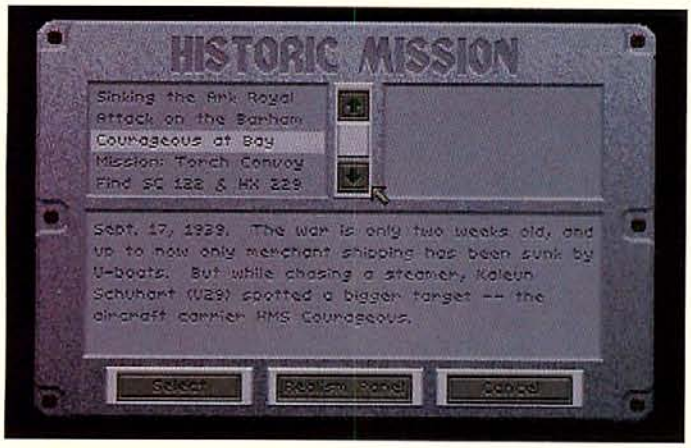
The periscope has crosshairs and gradients with an accurate bearing indicator, as one would expect. But the view from the periscope is something I never imagined I'd see on a PC — the scope barely peeks out over the surface of the ocean, and the sight occasionally blurs water splashing on the scope, slowly clearing from the top as it drains away!

The view from the bridge is enough to make a landlubber queasy. Having crossed the Atlantic five times, I can attest to the fact that it is rarely flat. Submarines, whether old diesel boats or top-of-the-line nuclear subs, are not designed for surface operations. Relatively small for warships, they bob up and down like corks on top of the waves, all of which is captured wonderfully by the bridge view. After turning off the lights, I found myself doing a slight sway and wishing for an Atlantic breeze to go with the rolling waves.

The bridge view, besides its beautiful ocean, contains a couple of noteworthy items. First is a set of "big-eyes," or large binoculars, with a bearing circle for surface attacks. Instead of looking out and seeing a ship, then running down to the conn for a periscope bearing, a handy interface allows you to stay on the bridge and maximize oxygen. You can also make surface attacks using torpedoes, as the same controls are available on the bridge as in the control room.

Running synchronously with the clock, the cycle of day and night adds another element of realism to the game. Time compression is a welcome option, allowing you to transit large areas quickly and avoid the boredom that is very much a part of submarine life.

Once a target is located, information must be gathered and a target solution generated by calculating your heading and speed, plus the target bearing and range. This information is then fed into the Torpedo Data Computer, which fortunately does all of the number crunching. Historically inaccurate? Yes, to a degree, but this is a design decision that saves the gamer a lot of tedious calculation. (I would personally enjoy doing all the work, more from nostalgia than concern over realism.) Once the data is calculated, you have the option of using torpedoes or the deck gun to destroy the target. The deck gun is fired not by you, but by your crew, which makes sense, as it steers the game away from arcade action. The designers of the game are still doing a lot of work in this area, but what I have seen so far suggests that they're on the right track.




**A SUB CAPTAIN'S DREAM** Choose from a variety of scenarios as you move from submarine novice to legendary skipper.




**TORPEDOES AWAY!** The Torpedo Data Computer may not be the pinnacle of realism, but it makes targeting a lot easier.

### A+ IN HISTORY

Although the graphics had me reeling in my chair, the single most impressive aspect of this simulation is the extent to which it captures historical accuracy. I spoke with Mike Jones, the producer of ACES, and was thoroughly impressed with his grasp of submarine technology and U-boat history. In addition, **Dynamix** employed researcher Dennis Kilgore to ensure accuracy, and he went as far as London to do so. Surviving U-boat crew members were interviewed, archives were stripped of their wealth, and all this information was used to some extent in the game. From rate of depth change to crush depth, from speed to torpedo damage, you'd be hard pressed to find an element that isn't modeled after historical data.

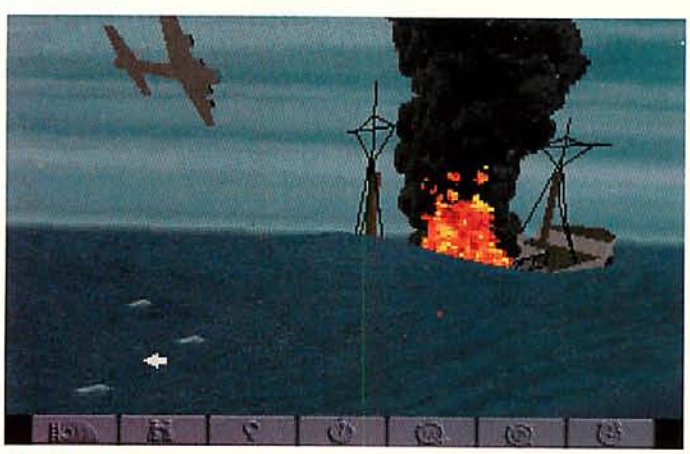
To ensure that the game plays as realistically as possible, Dynamix has made some interesting decisions with regard to crush depth and the damage factors. The crush depth (the depth at which a sub may collapse from pressure) is learned exactly once, and no one has ever returned to say what it is. Since the actual crush depth is unknown, Dynamix has left it unknown and somewhat random. Rather than having a crush depth, the sub has a crush range, and it varies slightly from game to game. This prevents the player from learning that the crush depth is 210 meters, and setting the depth for 209 meters.

The damage factors are still being implemented, but the approach is refreshing. Damage is not strictly cumulative, meaning that if a depth charge is detonated at a given distance and inflicts 10% damage, 10 more depth charges at that distance may not destroy the boat. The damage inflicted by subsequent depth charges may be more, or may be less than the first, ensuring that captains play by gut feeling and experience, rather than "by the numbers."

### MISSION SUBMERSIBLE

ACES can be played in a number of different modes. Degree of difficulty can be varied, allowing each player to adjust the learning curve to their experience level. As in other sims from Dynamix, single missions are available for training, stalking convoys, encountering warships, or historical missions. The latter are particularly fascinating, allowing you to participate in some of the extraordinary exploits of actual U-boat skippers. You may also embark on a career, where you select an emblem to represent your boat. I noticed right away that the emblem of the U-boat in **Das Boot** is present, along with many others almost as famous.

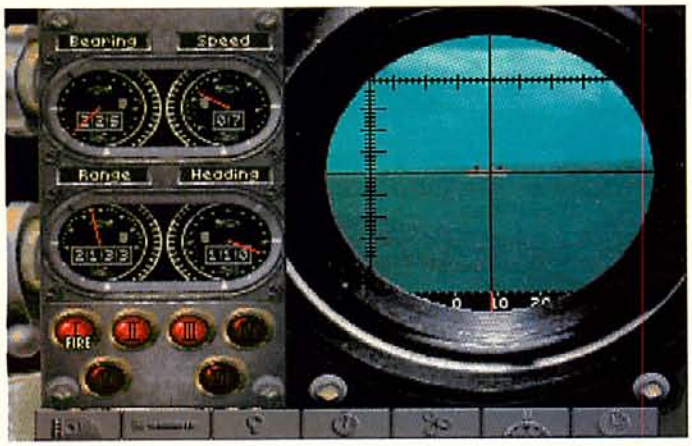
In taking on a career, you can choose to start at one of several stages in WWII. "Opening Moves" and "Happy Times" reflect pre-1941 naval combat, where Anti-Submarine Warfare was non-existent and convoys had not been developed. "Stalemate" takes place in 1941, where ASW was starting to become useful. The US coast is the scene for "Drumbeat," where the US is caught unprepared for the U-boat threat in 1942. Later that same year, "Crescendo" shows how the convoy system and ASW had begun to evolve. The large convoy battles over the Atlantic come into play during "Climax," in the first half of 1943. "Defeat" continues the game on to the end of the war. The difficulty levels of these scenarios rise and fall like a sea



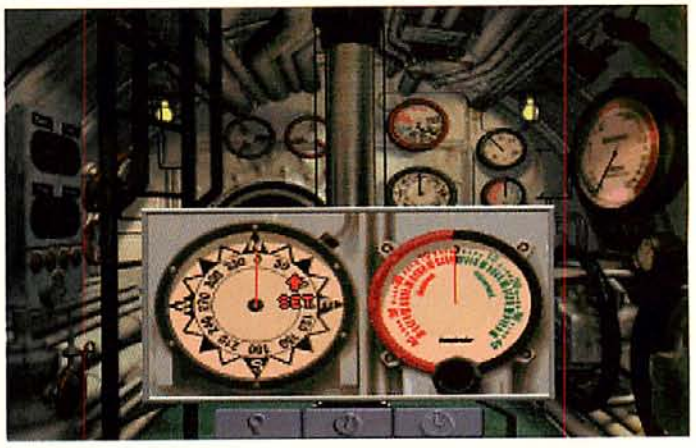
**A WATERY GRAVE** If you're lucky enough to nail the enemy, don't hang around for search planes and destroyers to find you.




**ACHTUNG! DEPTH CHARGES!** Try a warship encounter in a solo mission before meeting one in the middle of a campaign.




**UP SCOPE!** Stalk your prey over the grey seas of the Atlantic with a periscope which accurately models its real-life counterpart.



**PREPARE TO DIVE** The interior is filled with detailed, realistic and stunning depictions of WWII submarine technology.

swell, as did the flow of events for the Germans in WWII. This game will prove to be an excellent learning tool, while still being very entertaining.

### DIVING INTO DOS VS CD-SUBMARINES

Mike Jones informs me that after the August release of the DOS version, an enhanced CD version of the game will be available late this year, and this version may contain interviews with actual U-boat skippers. Also being planned for early 1995 is a mission disk that will allow the player access to the Mediterranean and another U-boat type. Should the design do particularly well, Dynamix is even considering publication of a scenario builder.

ACES OF THE DEEP is simply one of the most impressive pieces of software I've had the pleasure of playing. From the opening quote by Winston Churchill and the ghostly image of a submerged U-boat appearing out of nowhere, to the actual nuts and bolts of sub warfare, it is evident, even before the game is complete, that ACES OF THE DEEP will set the new standard for submarine simulations, perhaps even simulations in general. Otto Kretschmer and his fellow submarine aces would be proud.

*Kevin "Sumo" Turner (ICI SS/DV) is a former submariner, former DSRV crewmember, and former Navy diver.*


TOP GUN PACKAGE
Games Master console & 6 Matts included
1. Falcon 3.0
2. Comanche Maximum Overkill
3. Aces of the Pacific
4. Flight Sim. 4.0
5. Strike Commander
6. Keyboard Normal QWERT
Only $99.95

BASIC PACKAGE
Includes Games Master Console & Keyboard Normal QWERT Matt
Only $69.95

MATTS
$14.95 Each

NEW PRODUCT
KATT
GAMES MASTER™
TOTAL CONTROL SYSTEM!
Simply! The best way to Play
The solution to simulation computer games enjoyment

Easy slide in slide out Matt

Finally a total control system that gives you full command and lets you increase your enjoyment and performance because the Games Master ends all keyboard confusion and frustration once and for all. The exclusive "Colored Icon Keys" makes it easy to locate the Hot Keys at a glance. With exclusive "One Touch Features" (No more Shift + ____, Ctrl + ____, Alt + ____.) and colored icon keys arranged in an intuitive and logical fashion, your enjoyment and performance from game to game will be greatly improved.

Games Master is an intelligent control panel that will change the way people learn and play computer games by adding a new dimension in total control because it replaces the standard keyboard. The keyboard becomes obsolete! It is not just a template but a smart control panel consisting of the console and matts.

The exclusive "Slide In and Out" feature of the Matts makes Games Master easy to use. Simply plug in the Games Master into your PC and press the appropriate code number from the game Matt. No hassle with installation software and configurations. Moreover, our memory features can be upgraded with inexpensive rom chips and therefore, your Games Master will be ready when the next exciting games are released. (eg. Privateer, Aces over Europe, Flight Sim 5.0, Wing Commander Academy, F-16 Fleet Defender, etc.) We are sure that with the Games Master, you will wonder how you ever got along playing the games without it!

Lock Mechanism to hold the Matt securely
Games Master is the ultimate control system containing all the commands for the game! No need for accessories!
Connects to Keyboard port
Does not interfere with operations of Joystick
Plug and play
Compatible with Thrustmaster's products
Intuitive grouping of commands
Beautiful Graphics
Durable Laminated Matts
Colour Coded for easy Recognition
One touch keys save time & makes Mastering & Enjoying the Games easier (No more Ctrl + ____ Shift + ____ Alt + ____)
Allows anyone from 7 to 90 to play due to Simplicity of the Matt
LED Readout light
Key code for game selection
Present commands for popular 3B games software
Ram compartment on backside for upgradeability feature. New inexpensive chip will be available about every six months for future popular games and applications
Just press code for matt, ENTER and you are all set to play
Actual dimensions: 8 in. x 15 in.
No need to Memorize keys for location of various commands
Vital game information on the Matt
Easy Slide In and Out System for Matts
No Battery or Software required to Run Games Master Keyboard
Touch sensitive membrane underneath Matts
Light Weight (1.5 Lb) Ideal for portable computers
Kidsboard No. 3 allows children the edge in computer usage. Saves regular keyboard for parents' usage.

System Requirements
IBM AT, 286, 386, 486, PS/2, Tandy AT or 100% Compatible

KATT

Payable to: Keyboard and Terminal Technology (USA) Inc.
17-1 Lincoln Place, North Brunswick, N.J. 08902, U.S.A.

Name ____ Country ____
Address ____
City ____ State ____ Zip ____

Method of Payment (Please check one)
☐ Check ☐ Money Order ☐ COD
Your order will be shipped within 5 days

| | Qty. | Amount | Prices |
|---|---|---|---|
| Basic Package | | | Basic Package $69.95 |
| Top Gun Package | | | Top Gun Package $99.95 |
| Matts | | | Matt $14.95 each |
| Sales Tax (NJ Res 6.00%) | | | Shipping & Handling: |
| S & H | | | All orders $4.00 |
| COD Add $4.50 | | | COD $4.50 |
| 2 Day Air Delivery Add $7 | | | 2 day service add $7.00 |
| TOTAL | | | Canada add $8.00 |
| | | | Int'l add $35.00 |
| | | | For info and orders: 1 908 297 5399 |

Two weeks risk free. Money back guarantee.

Top Gun Package includes:
Games Master Total Control System
Free Six Matts included
(Falcon 3.0, Strike Commander, Aces of the Pacific, Flight Simulator 4.0, Comanche Maximum Overkill, Keyboard Normal QWERT)

Basic Package includes:
Games Master Console & Keyboard Normal QWERT Matt

Matt
1. Keyboard Normal ABCD
2. Keyboard Normal QWERTI
3. Kidsboard
4. Aces of the Pacific
5. ATAC
6. Birds of Prey
7. Civilization
8. Chuck Yeager's Air Combat
9. Falcon 3.0
10. Flight of the Intruder
11. Flight Simulator 4.0
12. Flying Fortress, B-17
13. M1A1
14. F-15 II
15. F-15 III
16. Gunship 2000
17. Jetfighter II
18. Matrix
19. Comanche Maximum Overkill
20. Megafortress
21. Red Baron
22. Red Storm Rising
23. Secret Weapon of the Luftwaffe
24. Silent Service II
25. Special Forces
26. Stunt Island
27. Task Force 1942
28. Ultima Underworld
29. Wing Commander
30. World Circuit
31. X-Wing
32. Air Warrior
33. A-10 Tank Killer
34. ATP
35. Harrier Jump Jet
36. Mig 29
37. Spectre
38. Strike Commander
39. Tornado
40. Ultima Underworld II
41. Ultra Bots

Keyboard and Terminal Technology (U.S.A.) Inc.
17-1 Lincoln Place, North Brunswick, N.J. 08902, U.S.A.
Tel: 1 908 297 5399 Fax: 1 908 297 5399


*Circle Reader Service #169*

# HARD DRIVE TAKES ON A WHOLE NEW MEANING.






## Get a grip–and hang on tight.

*IndyCar™ Racing is real-world, 3-D racing! Check out the reviews:*
***"Phenomenal"***– Computer Gaming World. ***"Scary"***– On Track.
***"Fast, furious, brilliant"***– PC Gamer. ***"Nirvana for car racing fans"***– Game Bytes.




**The feel.** *It's almost too real. Scream down the straight. Crest a hill and your stomach's in your throat. Corner too fast and it's panic. Brake? Gas? Flick the wheel? If you have to think, you're toast.*

*Don't worry, you'll learn. But this is a win you earn.*



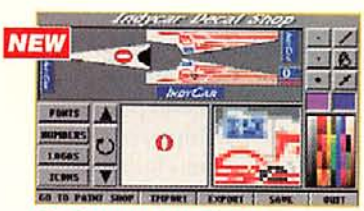

**The look.** *You're there. Cars, tread marks, terrain, billboards – even paint schemes and decals on real IndyCars – accurate in obsessive 3-D detail.*

**The experience.** *Tinker with chassis and engine set-up. Fiddle with turbo boost, wing angles and tires. Factor in tire wear and fuel load. All play a part – all can help you go faster.*




**Add on 7 new tracks.** *With our **IndyCar Circuits: Expansion Pack**, you can race at seven new tracks – from Phoenix to Mid-Ohio, Detroit to Queensland, Australia – the challenge always stays fresh!*

*Each track has been painstakingly constructed to match the true dimensions of the actual speedway.*




**And now, Indy® too!** *Our engineers have mastered the feel and thrill of "The Brickyard™" – so you can, too – with our new **Indianapolis Motor Speedway: Expansion Pack**. Plus, with this add-on package, you get a Customizing Paint Kit – to update colors and decals, or just do your car your way.*

OFFICIALLY LICENSED

INDYCAR™ RACING

PAPYRUS™

*Visit local retail stores, or call:*
**1-800-874-4607**

GOLDEN TRIAD AWARD — COMPUTER GAME REVIEW

COMPUTE CHOICE AWARD WINNER 1993

CODIES

COMPUTER PREMIER 1994 WINNER

Virgin INTERACTIVE entertainment™

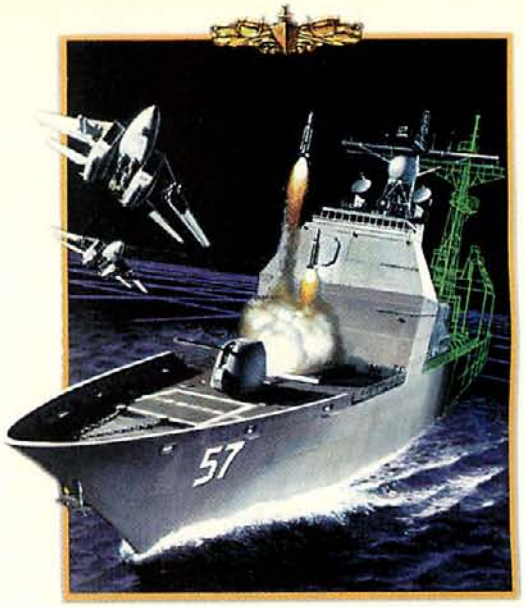
Distributed exclusively worldwide by Virgin Interactive Entertainment, Inc. 18061 Fitch Avenue Irvine, CA 92714

## Now, New Expansion Packs: IndyCar™ Circuits, plus The Indianapolis Motor Speedway!

Indianapolis 500,® Indy,® and The Brickyard™ are registered trademarks of the Indianapolis Motor Speedway Corporation. IndyCar™ and the helmet logo are trademarks of The Indianapolis Motor Speedway Corporation, under exclusive license to Championship Auto Racing Teams, Inc. Papyrus is a trademark of Papyrus Design Group, Inc. Virgin is a trademark of Virgin Enterprises Inc. IBM PC screens shown. Actual screens may vary.

Circle Reader Service #153

# Aegis: Guardian Of The Fleet



*Keeper of the Simulation Flame*

**by Terry Lee Coleman**

San Diego is in many ways the archetypal California city, its sunshine and lush vegetation blend perfectly with breezes from the nearby ocean which, in turn, wrap themselves around the eclectic architecture to be seen in every visual quadrant. Yet, this deceptively laid-back metropolis is also a staunch military town. The serene waters of San Diego Harbor are home to a flotilla of military vessels, from WWII aircraft carriers to modern destroyers and support craft. Amidst this grouping of past and present warships rests the pinnacle of naval hardware—the Aegis cruiser. Costing between 800 million and one billion dollars apiece, this technological marvel is as close to the ultimate weapons platform as we are likely to see in this century.

**AEGIS: GUARDIAN OF THE FLEET**

**Price:** $69.95
**System:** IBM
**Requirements:** 386/25 MhZ processor, 4MB RAM, CD-ROM drive, 20 MB hard drive space, VGA/SVGA graphics, mouse; Sound Blaster compatible for digitized sound
**Designers:** Software Sorcery
**Publisher:** Time Warner Interactive Group
Burbank, CA 91506
619-452-9901




In one San Diego locale, walking in a normal office building and strolling down a long, narrow hallway will take you to **Software Sorcery**'s Military Software wing—should you have the proper security clearance code. Software Sorcery has developed several training simulators for the armed forces, so they definitely understand the concepts behind military simulations. Still, the variety of weapon platforms and information gathering systems on the Aegis are so varied as to be exceedingly daunting to even the most avowed simulations buff. How can they possibly be accurately simulated with any hope of being played by the *average* gamer? The truth is, it wasn't easy, but I think they've got it.

Aegis is advertised as having a full-size 94-page guide. Unfortunately, if this were my guide in a desert, I would certainly die of thirst. The tutorial section spends more time defining what a laser *is* than in telling the user how to use one. Aside from the obvious fact that most simulation buyers know the difference between a Harpoon and a Tomahawk, the less informed need specifics, not general ramblings on what various systems represent. As happens all too much in this industry, the manual appears to have been written by someone who has never played the game.

In Aegis' defense, the game does include a very good Electronic Book of on-line information, along with an on-line Warbook, filled with comprehensive data on ships and hardware from navies and air forces around the world. As good as this is...the frustrating part is that the game tends to crash about 1/3 of the time after accessing the electronic book!

Other bugs mean the 5-inch gun doesn't always respond, and the MIDI music has some problems with Gravis UltraSound. The latter is a shame, because the music is quite enjoyable, having just enough of that pompous flair so necessary for martial compositions. These errors seem to be confined to a few systems (ironically, I had fewer problems on a single-speed CD-ROM than on a double-speed)—nonetheless, for having only a few errors, the game certainly has some obvious and irritating detractions.

Despite this, once the learning curve is crested, it becomes readily apparent that Aegis (to paraphrase Marlon Brando in "On The Waterfront") could have been a contender. The icon-based interface is actually quite logical, and moving around to the various ship systems quickly becomes second nature—especially when enemy missiles are coming at your ship. From the bridge, for instance, moving to the threat screen allows you to use radar, passive or active sonar, or other sensing devices to locate enemies, which are indicated in



**AEGIS ARTWORK** From the opening screens to the digital video missile launches, the graphics are crisp enough to pass a Navy inspection.

standard NATO symbology. Fans of RED STORM RISING will feel right at home.

### UP CLOSE AND PERSONAL

The weapons screen showcases the almost overwhelming amount of weaponry carried by the AEGIS. Over 120 bays hold Tomahawk (surface-to-surface), Sea Lance (anti-sub), and surface-to-air missiles, with the famous Harpoons forward in separate launchers. Marvelously detailed, the game requires that General Quarters be sounded before weapons can be fired, and you will be apprized as to weapons status through digitized voice. Similarly, digitized videos of launched weapons are available, although I was disappointed that I couldn't see video of the Phalanx Close-In Defense System with its reputation for firing 3,000 rounds per minute.

Firing weapons is simply a matter of clicking on an acquired target, then arming an appropriate weapon. Once lock-on is achieved, fire-and-forget is the order of the day, with both lock-on and weapon accuracy depending on range and difficulty level. The weapon ranges have an authentic ring, given their declassified source. The US Navy fully cooperated in the design, and it shows. Harpoons are less versatile than Tomahawks, but they are realistically tougher to shoot down, as the more vulnerable "pop-up" of the Tomahawk is factored into the design.

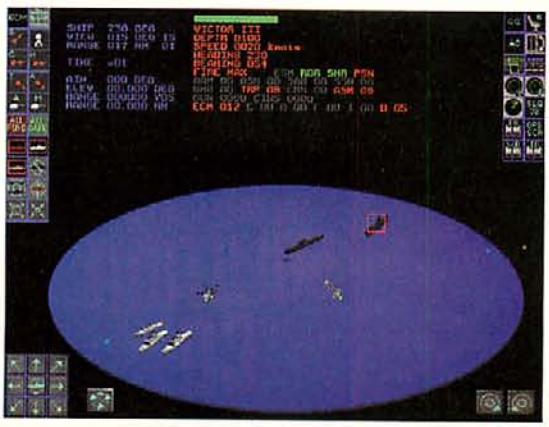
The heart of the game, however, is the Tactical display. Graphically, it shows the Aegis afloat, with the blue-sea background certainly more pleasing than the radar screen, among others. Enemy ships, planes and other threats are shown in detail, and the view may be zoomed in and out as needed. An Exocet missile *looks* as it should, tremendously important visual feedback for the average gamer. In beginner mode, clicking on the missile or other enemy object gives information about warhead size, range, speed, and so forth. On higher levels of complexity/realism, information is doled out only as quickly as sensing devices can pick it up. Simulation purists will be pleased at the accuracy of the graphics, but may find the look to be too slick for their tastes. (They can of course stick to the weapons screen). Regardless of which screen the game is played from, the tension is exquisite. Time compression is available, but it will rarely be needed. In most scenarios, threats appear quickly enough that you'll beat your mouse (and hot keys) to death responding to them all.

### A SIM FOR ALL SEASONS

Frankly, this game reminds me of RED STORM RISING in that it does for surface ships what the former did for submarines. Sometimes, the Aegis struggles alone against a horde of air units, hell-bent on its destruction. At other times, it must stalk deadly and stealthy subs, or launch a surprise Tomahawk strike on land targets. While the Aegis is an excellent anti-sub and anti-surface vessel, its main duty is to protect aircraft carrier groups. Often, you must deal with a sub or surface attack at the same time you are conducting air defense for the carriers. Unlike a lonely sub commander, your position as captain of an Aegis will require you to use a significant number of different assets at your disposal, according to your assigned tour of duty. You may coordinate interceptor aircraft, AWACS surveillance, or anti-sub helicopters.



**I CAN SEE FOR MILES** Numerous screens offer a variety of information and views of the enemy, using the AEGIS' state-of-the art surveillance system.



**RUN SILENT, RUN DEEP...SOMETIMES** A Russian Victor III submarine is foiled in its attempt to sneak up on the AEGIS undetected.

One major plus for those who like realism (a minus for control freaks) is that your control of these forces is limited to issuing orders; you cannot take control of them directly. This is very appropriate, since this game is a simulation, and *not* trying to be a wargame like HARPOON.

To ease the novice captain's anxiety, *eighteen* training missions are included, all of which have something to recommend them. After chasing enemy subs and fending off aircraft, it can be a bit of a shock to fight a defecting Aegis crusier in the final training scenario. Needless to say, this is a more than adequate preparation for the "real game."

Over 100 missions are included, and in classic simulator style, you may fight single battles or carry out a campaign. If you choose the ever-popular Desert Storm, you will fight your way through all of the battles in strict chronological and historical order, albeit without CNN along. Just for fun, some hypothetical scenarios are included. My favorite was the Black Sea variant, where I got to tangle with the revamped Russkies. One of the nicest things about this system is that it doesn't have the forces involved casually tossing nukes around (as in RED SKY AT MORNING). The forces don't seem to vary much the second time around in a particular battle, but playing on higher levels causes them to react differently, so replay value is better than anticipated. With the vast number of scenarios available, there is plenty to keep even the most die-hard naval fan enraptured for months, at the very least.

Aside from its similarities to RED STORM RISING, it also reminds me of another sim—FALCON 3.0. Even with the bugs (which are already being corrected as we go to press), this is one of those games which will cause people to upgrade their hardware in order to play it. AEGIS is one of the few games for which it is actually worth purchasing a CD-ROM drive. Anchors aweigh!

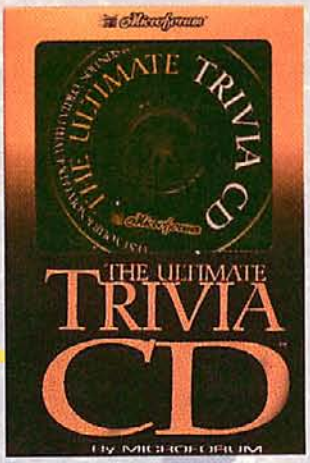
### AEGIS

★★★ 1/2

**PRO:** Lots of detail, accurate naval hardware depictions, excellent command perspective

**CON:** Poor instruction manual, disturbing crash bugs

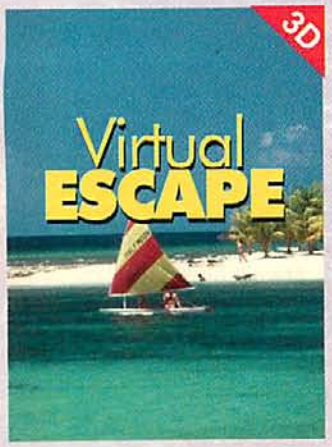
# Microforum Presents the Latest in CD-ROM




## The Ultimate Trivia CD NEW!

Take the Ultimate Trivia Challenge and test your knowledge. The Ultimate Trivia is the most advanced, challenging and exciting trivia game you'll ever play. This advanced multimedia trivia game includes live Video questions, incredible sound effects, breath-taking photography and Over 500 Trivia Questions !

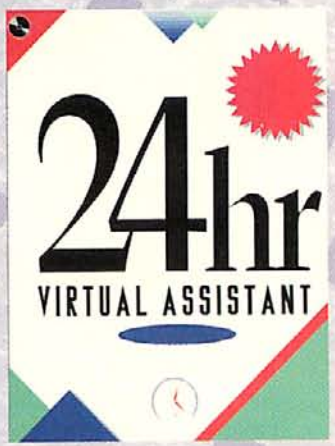
S.R.P. **49.95**




## Virtual Escape NEW!

An absolute must for all computer users! Incredible animation will take you into a relaxing virtual world! Select your own virtual animation and music to help escape everyday stress & worries (music selection includes "Barcelona Nights" by Ottmar Liebert which has sold over 500,000 copies). This CD also includes "Super Natural" 3D photographs which you can view with a newly developed 3D glasses enclosed! Also the latest in fractal animation and a live video personal trainer to guide you through specific exercises designed to tone your body to fight everyday stress.

S.R.P. **49.95**




## 24Hr Virtual Assistant NEW!

Access information quickly, efficiently and easily during any *Windows* application. Receive answers to the most common questions by using live video and an *easy-to-use* menu. Access help or tips from within any application such as CorelDRAW, Excel, WordPerfect and more!

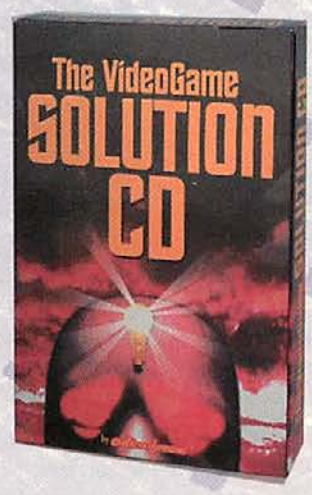
S.R.P. **49.95**




## G.O.R.G. NEW!

Experience the adventure of a lifetime and venture into the dark threatening planets of the G.O.R.G. galaxy. This "Out of this World" CD-ROM game will keep you playing for hours. Includes an extensive collection of sound effects, animation, incredible graphics and over 35 planets to explore.

S.R.P. **49.95**




## The VideoGame Solution CD NEW!

This CD-ROM includes easy to follow instructions to use hints and tips on how to solve the most popular games on the market! Also included are special editors which allows a player to have an unlimited number of lives and makes each game more exciting.

S.R.P. **39.95**

**ATTENTION PROGRAMMERS : DO YOU HAVE A SOFTWARE PROGRAM SUITABLE FOR CD-ROM? MICROFORUM IS LOOKIN**

Microforum

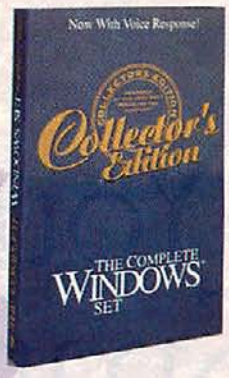
1 Woodborough Ave. Toronto, Canada
Tel: (416)656-6406 Fax: (416)656-6368




## Designer Fonts

Explore the latest fonts designed by top graphic designers ! This CD package contains an impressive variety of new typefaces for both TRUETYPE and POSTSCRIPT FONTS. Improve you presentations with this incredible font collection. A great way to create a lasting impression ! "Designer Fonts"contains over 400 customized designed fonts by top Designers. Simple and easy to use.

S.R.P. **39.95**




## The Complete Windows Set

"The Complete Windows Set" is for the Windows lover ! The set contains hundreds of the very best Windows Programs carefully selected and fully organized in a menu driven system for easy access.

S.R.P. **34.95** NEW VERSION!




## Super Arcade Games

The ultimate CD for video games. **INCREDIBLE GRAPHICS, SUPER SOUND EFFECTS & FAST ACTION!** Have hours of fun. Hundreds of the very best games such as: Doom• Blake Stone•Gotcha•Helius•StellarDefense• Ken's Labyrinth•Megatron•SeaQuest• Captain Keen and MANY MORE!

S.R.P. **29.95** NEW VERSION !




## Sounds of MultiMedia

A complete collection of exotic sounds, pictures, animation and video clips for your MultiMedia programs, presentations, desktop publishing, word - processing programs, or just for pure entertainment ! You can finally bring your computer to new levels of entertainment !

S.R.P. **29.95**




## Dream Girls

Do you have what it takes to be with two of the most beautiful models around? Now you can find out thanks to the latest in computer technology ! This advanced multimedia game features incredible live video, hit songs, sound effects and amazing graphics !

S.R.P. **39.95**

## ATTENTION DEALERS!

**Get into the Microforum Multimedia Program! With over 20 fabulous titles to choose from, this carousel will prove to be a hot new item among your customers.**










**OVER 25 CD-ROM TITLES AVAILABLE**

*Circle Reader Service #126*

**TO ADD TO ITS INTERNATIONALLY DISTRIBUTED CD-ROM COLLECTION. FOR MORE INFO. PLEASE CALL 416-656-6406**

**TO ORDER CALL 1-800-465-2323**

**DEALER INQUIRIES ARE WELCOME !**

**SOLD AT BETTER COMPUTER STORES EVERYWHERE !**

# Keep Your Eye On The Sparrows



## F-14 FLEET DEFENDER TACTICS PART II

by Tom "KC" Basham

THE AWG-9 RADAR USED IN THE F-14 IS EXTREMELY COMPLEX. ALTHOUGH NOT AN EXACT REPLICA, **MICROPROSE'** F-14 FLEET DEFENDER'S simulation of the AWG-9 approximates the real system well enough to appreciate the tasks which real-world Radar Intercept Officers (RIOs) face. In some respects, radar operation in DEFENDER is actually more difficult than in real life, because you must perform both pilot and RIO tasks. To make matters even more difficult, in order to exploit the advantages of the AWG-9 radar in the simulation, you *must* use the complex, "authentic" difficulty settings. At lower difficulty settings the computer-controlled RIO will take command of the radar. The computer-controlled RIO is good at finding targets at long range, but very poor at locking and attacking them, plus it *restricts* you from utilizing the most powerful radar modes.

### FINDING BANDITS

Generally, everything begins with the Detailed Data Display (DDD). You start by selecting SRCH mode, which uses a long-range, pulse-Doppler search mode. Although it limits the information presented about each target, SRCH mode allows you to look for targets at maximum radar range. Next, configure the scan pattern using three parameters: azimuth scan, elevation scan, and scan bars. The wider the vertical and horizontal scans, the more area the radar searches. Since this makes the entire search pattern extremely slow, you should generally avoid such very large scan patterns. I usually begin by selecting a 200 nautical miles (nm) range, maximum azimuth and 4-bar scan, keeping the elevation centered on the horizon. This enables me to cover a lot of territory in a reasonable amount of time. I leave the scan pattern alone until it has a chance to complete two scan patterns, then begin to adjust the vertical elevation slightly. Each press of the PGUP and PGDN keys adjusts the elevation by 2 degrees. Adjust the elevation in small increments only; pointing the radar up 2 degrees means raising or lowering the scan zone by over 42,000 feet at the maximum range of 200nm! Moving the antenna up or down, even slightly, could move the scan pattern enough to exclude important radar contacts.



**AS FAR AS THE EYE CAN SEE** Visual identification is a luxury. Initiate a long-range scan with SRCH mode if you want to survive the mission.

After detecting radar contacts, *resist the temptation to radar-lock a single target* in STT mode! This only signals your intentions to the enemy and focuses your view on a single target. Instead, keep using SRCH mode until the targets are visible on the DDD with a 100nm range. Then, select Track-While-Scanning (TWS) mode. Although limited to a 100nm range, the TWS modes (TWSA and TWSM) are the best radar modes for the AIM-54 Phoenix missile. In the TWS modes, you can monitor up to 24 targets simultaneously on the Target Information Display (TID) and launch Phoenix missiles at up to six enemies. The HL button highlights selected targets, giving you more detailed information. You can even interrogate a highlighted target's IFF (Identify Friend or Foe) signature. Since the radar never locks on any single target, your scans will not trigger any enemy radar detection alarms. You and your wingman can conceivably attack an entire squadron of enemy aircraft without ever setting off a single "radar lock" warning.

The TID in TWS mode gives a graphic, top-down display of the radar contacts, showing their relative positions, their altitudes, and their headings. Using this information, along with IFF checks and "bogey dope" from the E-2C Hawkeye, you can quickly determine which aircraft are hostile, which ones are

# ZEPHYR™

# JOIN THE BATTLE!








- 3-D rendered tanks and obstacles.
- Intense combat action.
- Easy to use keyboard, mouse, or joystick interface.
- Complete network and modem support allow up to six human and/or computer players.

ZEPHYR is the ultimate 3-D, futuristic tank simulator from New World Computing. Strap yourself behind the control panel of a state-of-the-art Zephyr battle craft and blast the competition to atoms. Pilot your Zephyr through subway systems, under water, and over alien landscapes as you vie for fame, glory, and corporate sponsorship.

**NEW WORLD COMPUTING, INC®**

**P.O. Box 4302, Hollywood, CA 90078**

**Available at your local software retailer or order direct from New World Computing at 1-800-325-8898 (818-889-5650 outside the U.S.), or by mail: P.O. Box 4302, Hollywood, CA 90078-4302.**

© 1994 New World Computing, Inc. Zephyr is a trademark of New World Computing. New World Computing and its distinctive logo are registered trademarks of New World Computing, Inc. All rights reserved. IBM screens shown. Actual screens may vary.




**WHO GOES THERE?** Unsure if that far-off aircraft is friend or foe? Highlight the target with the HL button, and query its IFF signature, without setting off radar warnings.

flying fixed patrols, and which ones pose a threat to you or your carrier.

### BOLT FROM THE BLUE

Next, comes the true beauty of the AWG-9/AIM-54 combination: attacking six targets simultaneously at long range. In the TWSA mode, the computer will automatically allocate all Phoenix missiles; you just push the fire button once for each missile and watch the resulting explosions. In the TWSM mode, you have to manually designate the firing order of targets. Click first on the DT button, then on individual radar contacts. A number from 1 to 6 will appear next to each designated contact, indicating the firing order. Each time you press the missile launch button, a Phoenix missile will be fired at the next designated contact. You just sit back and watch the action.

As an alternative to the TWS modes, if you are within 100nm of a friendly AWACS aircraft or your aircraft carrier, you can deactivate your radar and use the *datalink* mode. Click on the DL button beneath the TID and it will display bogey information provided directly from the AWACS or carrier. Again, manually designate targets (as described for the TWSM mode) and fire your Phoenix missiles at the targets without ever having to turn your radar on!

Since the Phoenix is a fire-and-forget missile in DEFENDER, you can break radar lock at any time and head for home—a good idea once you've launched your last Phoenix. Although no slouch as a dogfighter, the F-14 should avoid knife-fights whenever possible.

### THE LAST RESORT

Bandits aren't always so cooperative in letting you bug out, however. Sometimes, it's best to simply close the range and duke it out. If you have AIM-7 Sparrow missiles,




**MY, IT'S GETTING LATE** Don't waste time when you've identified a hostile. Designate the missile firing order and let 'em fly!

KEYBOARD COMMANDER CORPS
PREMIUM TEMPLATES™

FALCON, MIG OR HORNET COMMANDER UTILITIES™

*Finally! Total control of your Falcon 3.0, MiG-29 or Hornet squadrons and campaigns!!

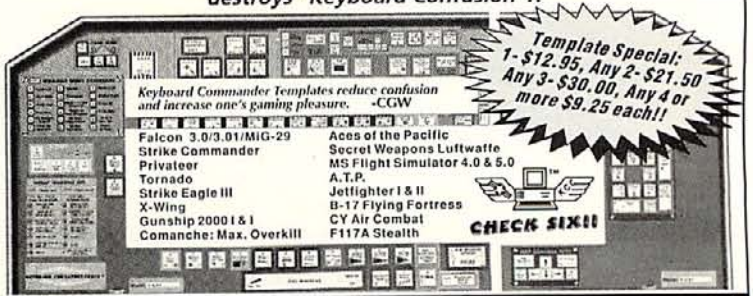
For one low price you get all six:

- FALCCALC/MIGCALC/HORNETCALC: Superb campaign intelligence gathering tools. Viewable/Printable theater map with detailed info. on every site, ground forces & all flight paths! Printable Fuel consumption, Waypoint timing, Strategic/Tactical reports and "Kneeboard sheet". Even tells you the conditions for victory or defeat!!
- F3/MIG/HORNET REQUISITION: Take full command of Falcon® 3.0 squadrons! Customize squadron names and pilot's roster, including names, callsigns, skill ratings and status. Replenish supplies including F-16's! Sort/print roster by rank or skill, Sierra Hotel list and more!
- FALCON MAPPER: The famous Red Flag, Instant Action and HUD customizing utility! Change default theaters for Red Flag and Instant Action. "Declutter" HUD. Set default IA difficulty level. Auto-generates Red Flag missions in any theater. New graphical map shows entire Red Flag theater, flight paths, enemy positions and more!
- SHOWF3: Viewer for screen-shots taken with Falcon's secret screen-capture program! View shots individually or in "slide show". New conversion feature saves screen- shots to popular .GIF or .PCX formats. Includes easy instructions for Falcon's hidden capture commands!
- KCCMENU: Fantastic menu-shell that brings it all together! Use ready-to-go menus or customize to your preference. Add new menu items or create sub-menus to add other sims, games, TSRs or .bat files. Completely unloads from memory while running selection!!
- KCC'S COMBAT MISSIONS: All new gut-wrenching, action-packed Red Flag missions. Includes all type missions in different theaters. See if you've got what it takes to fly these "volunteers only" thrillers!

ONLY $19.95 PER SET! OR FALCON COMMANDER OR MIG COMMANDER UTILITIES + F3 TEMPLATE ONLY $24.95!!

IMPORTANT!: *FCU is compatible with Falcon®3.0: Operation Fighting Tiger™
MCU is compatible with Falcon®3.0 AND MiG-29: D.A.F.™
HCU is compatible with Falcon®3.0 AND Hornet: N.S.F.™

Premium Templates™ standardized, color-coded layout destroys "Keyboard Confusion"!!




★ High-Quality, 3-D Graphics ★ Color-Coded Layout ★ Laminated Stock ★
★ Fits all AT101 Keyboards ★ Standardized Format ★ Affixes to Keyboard ★

To Order Call Computer Express: 1-800-228-7449, Ext. 522 Mon-Sat 8:30-6:30 EST
DISCOVER VISA MasterCard
All other inquiries to: Keyboard Commander Corp. 4839 SW 148 Ave., #402, Davie, FL 33330 800-262-6066

Falcon, MiG and Hornet Commander Utilities and Premium Templates are trademarks of Keyboard Commander Corp. Falcon is a registered trademark of Spectrum HoloByte. MiG-29: Deadly Adversary of Falcon 3.0 and Hornet: Naval Strike Fighter are trademarks of Spectrum HoloByte.



Circle Reader Service #80

# Drive the Grand Prix Simulation Used by Formula One Racing Teams



The key to winning on the Grand Prix Circuit is practice, practice, practice! To practice you need track time but that's expensive, subject to availability, and you could blow an engine.

Now, Formula One teams have a better way to familiarize their drivers with the major Grand Prix circuits. They sit them in front of a computer and let them practice with MicroProse **World Circuit**™.

Sixteen Grand Prix circuits have been so faithfully reproduced that rookie Formula One drivers can become as familiar with the track as experienced World Driving Champions. A slight mistake here will cost you a few seconds rather than a $200,000 engine.



Actual screens may vary.







Features include realistic Formula One handling and performance and authentic cockpit instruments. You can even change the car's set-up for maximum performance on each circuit; tire selection, wing down force adjustment, brake balance and gear ratios.

Various levels and settings allow you to increase the challenge as your driving skills improve.

Take on the Formula One driving simulation that challenges the pros. **World Circuit**™ from MicroProse.

MICROPROSE®

A Division of Spectrum HoloByte® Inc.

1-800-879-PLAY

© 1994 MicroProse. ALL RIGHTS RESERVED.

*Circle Reader Service #172*




**LIVING THE GOOD LIFE IN THE SKIES** If you're lucky enough to get the jump on your opponent, just sit back and watch the targets disappear when the missiles hit home.

move to the front seat and point the aircraft at the enemy. Jump to the back seat and select SRCH mode. Then, click on the desired target in the DDD display so you can lock the radar to that specific target and fire your AIM-7 Sparrow missiles at it. Fire your missile and hustle back to the front seat. These are not fire and forget, however, so remember: *you must keep the radar locked until the missile strikes or the missile will miss the target.* Your intended victim will no doubt try to break the lock by maneuvering, so you must be prepared to counter maneuver and maintain the lock.

Once you are within 5nm of the bandit, the back seat position becomes totally useless. Although a real-world RIO would continue to work the radar, a single person cannot dogfight the plane and operate the radar at the same time, because the flight controls are disabled in the back seat. When in a knife-fight, select the *Boresight* radar mode to immediately and automatically lock the closest target directly in front of the aircraft. While *Boresight* doesn't give you much selection, it does significantly reduce your workload. In hindsight, MicroProse should have: allowed the back seater to control the aircraft from there; provided an autopilot that will dogfight while you are in the back seat; or created an auto-RIO that shuts off when you are in the back seat, but operates the radar as if you were playing at "standard" difficulty level when you're in the front seat.

### DEBRIEFING

In summary, proper use of the RIO enables you to reduce other birds into ashes with your Phoenix missiles and to shoot down bogeys at shorter range while keeping your eye on your Sparrows. As the program stands now, though, once you start dancing in close, you're on your own.

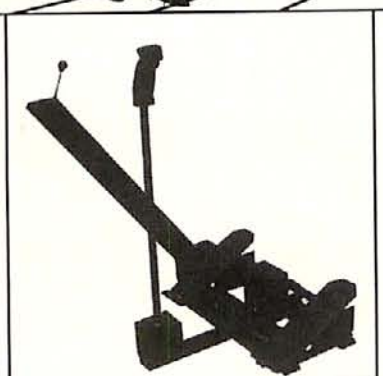


Courtesy of Grumman Corp.

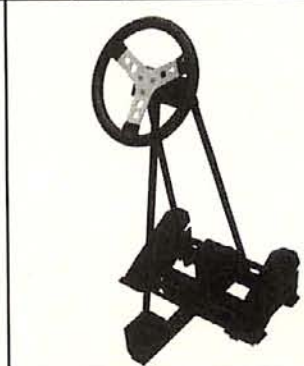

*Introducing...*

**THE UNIVERSAL COCKPIT™**

*STRAP IN...AND TAKE OFF!!!*



**FLIGHT SIMS**
*Stick/Rudder/Throttle*
*(not shown , yoke configuration)*



**AUTO RACING SIMS**
*Steering/Brake/Throttle*
*Push Button Shifting*

*The UNIVERSAL COCKPIT Allows You to Take Command of Your System Three Ways (stick, yoke or steering). Now You can have Complete Control whether on the Track or in the Air.*

**FEATURES:**

- Tough Aluminum Construction
- Free-Standing System. No Clumsy Desk Mounting Clamps or Suction Cups!
- 3-in-1 Modular System, Easily Converted

*Coming Soon: The UNIVERSAL JOYSTICK™- "Complete" Control of Auto Racing and Flight Sims in an Economical Desktop Package. ASK FOR DETAILS!*

*SIMULATION SYSTEMS*
*1-800-647-7623*

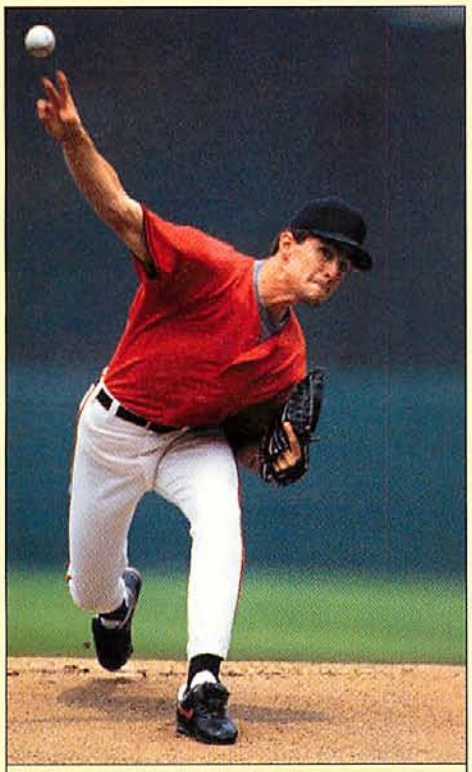
*SIMULATION SYSTEMS • 791 E. Brokaw Rd. • San Jose, CA 95112 • 1-800-647-7623 • Fax (408)441-0650*

*Circle Reader Service #113*

COMMIT TO ★ EXCELLENCE

# FRONT PAGE SPORTS®

VOLUME ONE NO. 1 ★ ★ ★ ★ PRO EDITION



*Now get all the drama and excitement of life in the big leagues with a new PC game from the makers of award-winning* Football Pro.

# BASEBALL SEASON STARTS TODAY!

## COLORADO ADMITS TEAM MANAGED BY COMPUTER

With no manager in sight, the team was forced to admit that they've been managed for the last year by a very powerful computer program: *Front Page Sports Baseball.* The program's Manage-only mode is great for trying out your own strategy, playing head-to-head with other players or against the computer. Switch to Arcade play and take as much control as you want over pitching, batting, fielding and base running—at Basic, Standard or Advanced skill levels. During the season you can play all the games you want, switching from Manage-only to joystick jockey at will.

## GREATEST LINEUP EVER — OVER 500 STATS FOR EACH PLAYER

It happens every Spring. But for you it can happen any time. Because nothing brings you closer to the game than *Front Page Sports Baseball.* Whether you want to just play the game, manage a team, or both, you get to make the calls. And with 500 statistics on each MLBPA player, there's plenty to base your decisions on.

*Front Page Sports Baseball* lets you field 48 teams in one to three leagues. What's more, you can have 50 players on each team—25 on the big league roster, 15 at the AAA level or on the disabled list, and 10 in the low minors. So you can work with players not just for a season, but for their entire careers—from the minors to retirement.

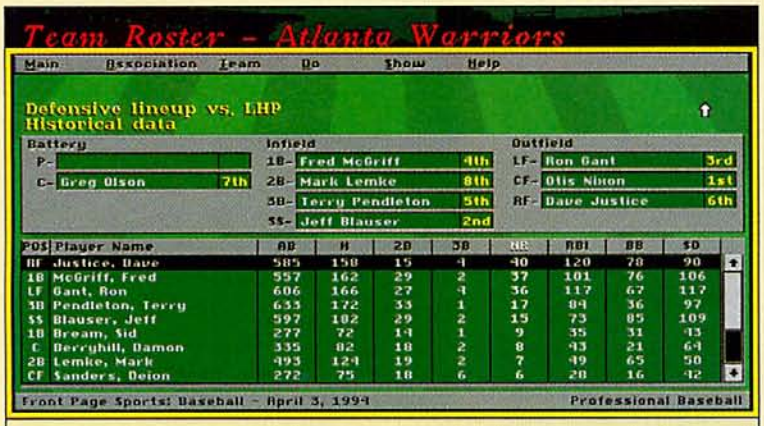



©MLBPA MSA

***Wind turns game into home run derby*** *See page 3*

COMMIT TO ★ EXCELLENCE

# FRONT PAGE SPORTS®




*Develop your own team dynasties using* Major League Baseball Players, *making trades, managing your team roster and the careers of all your players.*

## DUAL SPORTS STAR LOOKS AHEAD TO FOOTBALL SEASON

As exciting as *Front Page Sports Baseball* is, it's no wonder coaches are saying two-sport sensation Deion Sanders is itching for the football season to begin. After all, the same folks who have translated all the excitement of *Football Pro* into *Front Page Sports Baseball* are busy working on the next release of the pigskin's best rendition. It will include new rules such as the 2-point conversion and 30-yard line kickoffs, plus the 1994 NFLPA players and team rosters. Be sure to look for all the details in your box of *Baseball.*

## CHICAGO TO HOST BASEBALL'S BIGGEST STARS

League officials promised today to release the site of this year's mid-season showcase. All 12 of *Baseball's* realistic, 3-D stadium models are contenders. Officials admitted the stadium choice is really up to the user. The computer chooses teams based on actual player performance. With all the stars in baseball, the action is sure to be felt all the way into the upper deck.

## WIND 10, PITCHERS 0

In an amazing game showing the effects of high winds, Toronto and Oakland traded home runs, combining for a total of ten. Mark McGwire, Ruben Sierra, Terry Steinbach, Rickey Henderson, John Olerud, Paul Molitor, Roberto Alomar and Joe Carter all contributed round trippers. It could only happen in a game like Front Page Sports Baseball where temperature, humidity, wind and rain are all part of the game. So you get all the unpredictability of Mother Nature—as well as the chance to display your own skills. In fact, ball flight is based on a real physics model. Where and how far balls are hit is a true combination of pitch speed and the swing of the bat. The better you are, the better your team does.



SIERRA®

COMMIT TO ★ EXCELLENCE

# FRONT PAGE SPORTS®

# NEW YORK SWITCHES LEAGUES




*High resolution graphics put you in the batter's box for realistic pitcher-batter duels. Games played in 3-D replicas of 12 top stadiums.*

## Surprise Move Stuns Fans, Mayor To Investigate

In a surprise move, New York switched leagues today. The change of allegiance was perceived by many as an obvious attempt to capitalize on the fan appeal of a direct rivalry with the city's other team. Fans already were speculating what it would be like watching a player like Bobby Bonilla face the other league's pitchers. According to sources, *Front Page Sports Baseball* made the team's move easy. League play can be configured for up to 48 teams in one to three leagues. Talk around the league centered on what it would be like to have Toronto and Atlanta in the same league and division. The move might be completed as early as next week.

## OAKLAND CALLS UP TWO PLAYERS FROM MINORS

Looking for extra offense after eight losses in their last 10 games, Oakland has called up two .300 plus hitters from their AAA team. Key in the decision was the fact that *Front Page Sports Baseball* lets you have extra players on the injured list, in AAA, or in the low minors. You can also make player trades between the end of post season play and the August 31 trading deadline. Take over all the roster decisions for your team or delegate some or all of them to the computer.

## HOME RUN KING IN SLUMP? CHECK LAST SEASON'S AVERAGE

Coaches and teammates alike were unanimous in their support of Barry Bonds, saying he's always been a streak hitter and will probably start connecting in his next couple of at-bats. The team's batting coach backed up his statement by saying that a player's performance in *Baseball* is determined by ratings based on actual statistics. Performance factors include situational ratings, including left-handed and right-handed batters and pitchers, home and away games, clutch situations, and monthly performance records.



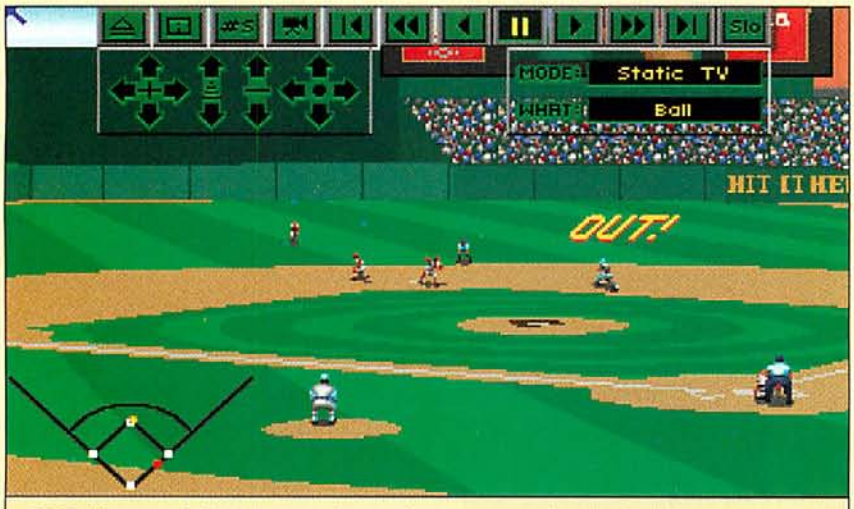
*Rotoscoped animations give players life-like action at bat and in the field.*

MAJOR LEAGUE BASEBALL PLAYERS

©MLBPA MSA

COMMIT TO ★ EXCELLENCE

# FRONT PAGE SPORTS®




*VCR-like controls for instant replays make sure you catch every bit of the action. Watch from virtually every angle in the stadium.*

## NETWORK TOUTS NEW EQUIPMENT FOR INSTANT REPLAYS

The best part of watching a game at home is the instant replays. Thanks to *Front Pages Sports Baseball*, this year's instant replays are going to be hotter than ever. Multiple camera angles are available for every ball put in play. Special controls even allow you to follow the ball so you track its every move as each play takes place. VCR-like controls let you slow down, speed up, and even reverse the action. Save unlimited replays to create your own game highlight films—or put together highlights for the entire season.

## LEAGUE CALENDARS TO COME OUT TODAY

Fans all over the country are clamoring for their season schedules to start planning the games they'll personally attend. Fortunately, *Front Page Sports Baseball* makes it easy to generate calendars for all regularly scheduled games. What's more, detailed box scores are provided for simulated games so you can find out what happened and how every player did. A special one-pitch mode lets you view just the critical pitch for every at-bat. In minutes you can review the key plays of an entire game.




## WHO'S ON FIRST?

Get the baseball game with all the strategy and action of the big leagues. It's a round tripper for anyone who loves baseball. To get the complete score, call 1-800-757-7707 and ask for D840.




## Futurists predict baseball will one day be played by robots

Pointing to advances in cybernetics, several futurists have predicted the game will one day be played by robots. Until then, *Baseball* can be played on a 386/33 MHz or higher IBM-compatible computer with 4MB RAM with EMS, MS-DOS 5.0 or higher, VGA, hard drive, and a 1.44MB 3.5" HD floppy drive or CD-ROM player. A mouse, joystick, and sound card (most supported) are recommended.

MAJOR LEAGUE BASEBALL PLAYERS

SIERRA®

©MLBPA MSA Officially Licensed by the Major Leagues Baseball Players Association. ™ and ® are trademarks of, or licensed to, Sierra On-Line, Inc. ©1994 Sierra On-Line, Inc. All rights reserved. WH006437402

# Playing Your Aces

## *Avoiding The Dead Man's Hand In Aces Over Europe*

**by Michael Rymaszewski**



DURING WWII, MANY AN EAGER YOUNG PILOT ABOUT TO FLY HIS FIRST MISSION GOT A PERSONAL PIECE of advice from his commanding officer: "Don't worry about shooting anyone down—just get back in one piece." These words might ring particularly true to heavily decorated sim pilots who have sat down to ACES OVER EUROPE. There has been a dramatic improvement in the AI of flight sims, and the quality of the computer-steered pilots in ACES OVER EUROPE makes your opponents from the Pacific look like bumbling novices.



**GALLANT GALLAND** Not only a great pilot, Adolf Galland became the youngest commanding general of Germany's Fighter Command.

As challenging as it is, though, ACES OVER EUROPE *can* be mastered—if you ignore most of the tactics and suggestions in the AOE manual and develop a few useful habits of your own. This is especially true if, like me, you like playing at 100% difficulty level, with no mission replays—the closest a sim can get to the real thing.

### HE WHO STRAFES AND RUNS AWAY...

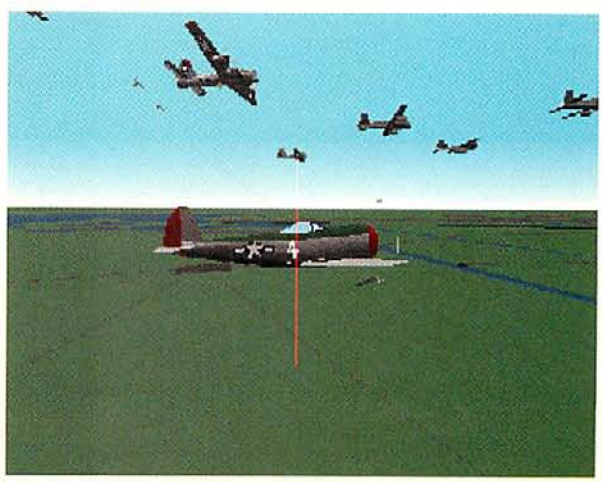
If you're looking for the maximum number of kills, you'll want to choose a Luftwaffe pilot since many of their missions involve intercepting bombers over friendly territory—allowing you to bail out, if need be, and defend your skies again. Of course, if you're simply looking for glory, you can fly for the USAF. American pilots are decorated for the second time after only twenty kills, as opposed to twenty five in the Luftwaffe and the RAF. US flyers tend to get more escort missions, as well. You can pile up quite a few kills this way, since Luftwaffe fighters concentrate on the heavies rather than the "little friends." If you simply want game points, however, you'll want to join the RAF. The RAF flies as many missions against ground and sea targets as against air, and these can quickly fatten your point total. Contrary to what is said in the manual, Best Careers are ranked by the number of *points* scored, not number of victories for each pilot.

### GREAT HORSEPOWER, TWIN CANNON, SHE'S A STEAL AT THIS PRICE!

One of the strongest points of AOE is the improved flight model. There are vast differences between all those planes, and it's up to you to exploit them. The best fighter planes in WWII were the Mustang, the Spitfire, and the Focke-Wulf 190. Choose one of those, and all you need is enough space on the fuselage to mark all those kills, right? Well, all of these fine aircraft can turn on a dime—with the notable exception of the FW190F, which handles like a Thunderbolt. Problem is, the sights are really tough to line up, and what you actually need is a stable gun platform. Furthermore, the famous Mustang is very fragile, relatively lightly armed and difficult to get out of a spin, and the Spitfire—especially the Mk XIV—will have you blacking out every time you attempt a tight turn.

So, what do you fly if you want a long, successful career? Here are my choices, based on bitter experience:

**RAF:** The Typhoon and Tempest win hands down as the best choices—and that includes American and German fighters, too. Both are heavily armed and can take a considerable amount of punishment. Both are extremely stable, letting you find the correct deflection angle with ease. Most importantly, both can outrun Ger-



**MOVE 'EM OUT** A P-47 Thunderbolt rides herd on a flight of B-17 Flying Fortresses, as they strike into the heart of Germany.

man fighters, helping you out of tight spots. The Spitfire comes in next, with the Mark IX being as good as the Mark XIV. Although slower and with bad rear visibility, it is a better gun platform of the two.

Avoid the Mosquito. Although very heavily armed, it is next to worthless in a dogfight, from which it rarely escapes.

**Luftwaffe**: Although the FW 190A is difficult to aim, it packs an extremely powerful punch. Its superior armament makes it the best choice until the Dora Nine version puts in an appearance later on in the game. The destroyer version, the FW190F, is an excellent gun platform, but is slow and turns poorly, making for a difficult time against good enemy pilots. The Messerschmitt 109 is stable and nimble, but also very fragile with limited ammo.

Flying the Me 262 is the worst choice. Despite being extremely fast and powerfully armed, it turns very poorly, and is easily damaged. Climbing into the cockpit of the Me 262, you are often rewarded with a flight of diving Allied fighters, leaving you to take off only after your plane is damaged. Also, Me-262's rarely enjoy the luxury of a wingman.

**USAF**: My American fighter of choice in AOE is, surprisingly, the Lightning. It is well armed, and the concentration of armament in the nose makes marksmanship fairly easy. It is wonderfully stable and difficult to damage. Although it wasn't considered very maneuverable, in AOE it can out-turn any German fighter (more about this later). Actually, I've managed to do better on the Lightning than on any other Allied plane, often fighting against vastly superior numbers. On one mission, I managed to down seven FW 190F's; on another, four FW190A's including one flown by Priller; on yet another, I took on six Me 109's, shot down three, and damaged the remaining three badly enough to turn for home without interference. The last of these heroic single-handed combats occurred under the worst conditions—at low altitudes, with no space for a prolonged dive—and the Lightning is too slow to run away.

The Thunderbolt isn't a bad choice, with its stability and good firepower, but handles worse than the Lightning. The vaunted Mustang comes in last, because in AOE it's an easy airplane to shoot down.

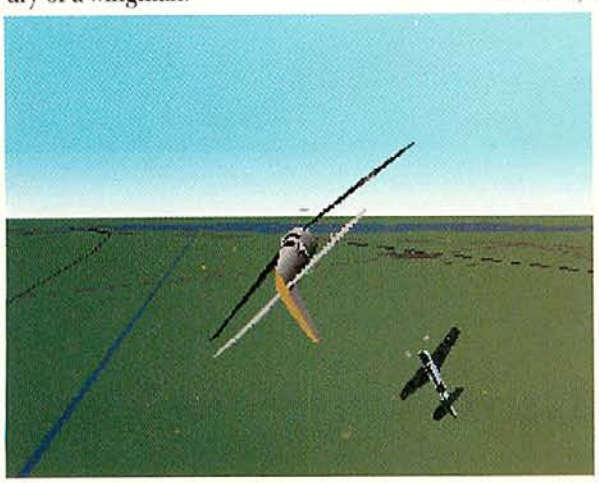
A 1955 interview of Heinz Bäer—a Luftwaffe ace that is featured in AOE—had some viewpoints which differ from the way the planes were modeled in the game:

"Pilot quality was the great imponderable factor until combat was actually joined. In general, the P-38 Lightnings were not difficult at all. They were easy to outmaneuver and were generally a sure kill. The P-47 Thunderbolt could absorb an astounding amount of lead and had to be handled very carefully. The P-51 Mustang was perhaps the most difficult of all Allied fighters to meet in combat. It was fast, maneuverable, hard to see, and difficult to identify because it resembled the Me 109. Of course, the quality of the Spitfire needs no elaboration. They shot me down once and caused me at least six forced landings."

> "Pilot quality was the great imponderable factor until combat was actually joined."
> —Luftwaffe Ace Heinz Bäer



**RIGHT-HAND MAN** Werner Molders (left) compliments his wingman, Hartmann Grasser, on a recent kill. Molders created the wingman concept with a two-plane formation.



**DANCE OF DEATH** A lone P-51 Mustang is caught in a "rolling scissors" stalemate with a Focke-Wulf 190.

### SURVIVAL TACTICS

The *logical* choice would be to join the best unit equipped with the plane you want to fly. The *right* choice is to join a squadron who's pilots are rated as fair or average. If you join a crack unit, you'll find that you are often asked to fly missions against expert opponents. One of the characteristics of expert computer pilots in AOE is that they shoot with great accuracy from all angles and impossible distances. Additionally, the aces and experts in your own flight can't help you if they have their hands full—which is liable to happen if your flight gets bounced by the Abbeville boys, or the Wolf Pack. Remember, it's not up to your comrades on how well you fare—it's up to you.

The key to survival in AOE is thinking for yourself, the moment your mission briefing appears on the screen. Choose a flight plan which is most likely to allow you to reach the target without being damaged in between, but with enough fuel to get home. Once you're in the cockpit, switch all the guns on. You'll have to watch your ammo, but at least you'll be ready for action.

Switch to autopilot upon attaining the required altitude. When the autopilot turns itself off, reduce the throttle and pull on the joystick. Flying just behind and above the rest of the flight is the optimum position, with no risk of collision, plus a constant knowledge of which way

the flight is going. When sighting enemies, remember that their position is given relative to the direction of the flight, rather than your individual plane.

Next, consult the flight map to see whether you can get rid of the drop tank. Generally, it's a good idea to drop everything you're carrying the moment enemy planes come into sight. Then, punch in full throttle and climb while you flip through the side and back views to get the total picture.

Now, even though the AOE manual and every war memoir you've ever read have told you to stick to your section leader at all costs, you need to realize that what worked in real life doesn't work quite so well here. Stay reasonably close to your flight so you can both offer and ask for assistance if needed. Then again, if your flight is getting shot to pieces, either run straight for the target or for home.

Never treat your flight leader's orders as sacred. The flight leaders in AOE are remarkably stupid, and will always urge you to keep attacking a ground target or a ship even as your flight is being sliced into tinfoil. Sometimes, they'll even tell you that the enemy fighters you've just spotted are friendlies. At other times, they'll acknowledge your report and calmly keep on flying with the full bomb load, only ordering you to dump your ordnance and fight after the enemy has opened fire. So, ignore your leader's silly exhortations and assess the situation yourself.

### THE FINE ART OF DOGFIGHTING

During a dogfight, keep checking the sky all around you; the side views can be even more important than that of your six, since an aircraft chasing you from behind won't get within firing range as fast as one coming from the side. Don't use the external views unless you're sure no enemy planes are nearby; it costs too much time.

My favorite sky check is to break into a sharp turn and complete a full circle with the upward view on. This gives you a clear, panoramic picture of the action, and lets you make a non-confusing transition to the forward view.

Always go into action on full throttle, and keep operating that throttle throughout the fight. Whenever you want to slow down immediately or turn tightly, cut the throttle and break into a stall turn. You can also slam down your flaps if you aren't going in excess of 280 mph. This will also help you turn very tightly indeed. The enemy pilots in AOE are very good shots, and they're likely to get you unless you use your rudder for maneuverability.

Most probably, at some stage you'll find yourself going in a circle with one or more enemy pilots. If you use flaps in conjunction with the rudder, you'll find that you can out-turn almost every airplane you come across, regardless of your aircraft. Also, you won't stall, which is particularly



**BULLS-EYE!** P-51 rounds caught in mid-flight before slamming into an enemy fighter.


THUNDERSEAT

Feedback System Used in Real F-16 Simulators

Now Available to the Public

"VIRTUAL UTOPIA!"
Marc Dultz, STRATEGY PLUS

"It made me feel like I was IN THE COCKPIT."
Alfred Poor, COMPUTER SHOPPER

"I could actually FEEL the punch of the afterburner!"
Ed Dille, ELECTRONIC GAMES

"A QUANTUM LEAP in realism!"
P.C. GAMES

HOW IT WORKS

A 100 watt subwoofer built into the base generates low frequency sound that resonates through the wave chamber hidden inside the chair. Thus you not only hear but FEEL your simulation. Paired with your amplifier, the ThunderSeat makes your favorite flight sim as realistic as it can be without a motion simulator!

OPTIONAL SIDE CONSOLES

put your favorite joystick controls and mouse at a convenient position. Add a keyboard holder and you have the perfect setup for both flight simulation and office work.

Shake Rattle and Roll for as little as $159.95!

For a FREE CATALOGUE CALL
1 • 800 • 8-THUNDER

ThunderSeat Technologies
6330 Arizona Circle • Los Angeles, CA 90045
310 • 410-0022 FAX: 310 • 410-1569

Whether its the whine of your Formula 1 Race Car, the clang of Sword against Sword, or the rumble of your Jet Engines at full after-burner, the ThunderSeat lets you take off to a new level of realism! Compatible with all sound cards and CD-ROM'S

Circle Reader Service #185

helpful if you're fighting an ace. They fly very slowly, turning very tightly, sliding onto your tail when you overshoot.

The quickest way to get the enemy in your gunsight is to turn constantly while working alternate rudders, lifting your plane into a stall turn, then gathering speed again in a shallow dive. Apart from throwing off the opponent's aim, this will put you on his tail faster than any other tactic.

If you do get badly hit, remember this: the consequences of bailing out in AOE defy logic, being designed to punish anyone who doesn't fight 'til the bitter end. If you throttle back, turn upside down, and jump, you'll be killed. On the other hand, if your plane is screaming earthward in a flaming spiral, you'll most likely survive.

### GETTING KILLS VS. GETTING KILLED

Don't close to point-blank range before firing, even though both accepted wisdom and the manual say you should. Enemy pilots tend to slow down sharply when they sense you're close behind, and when damaged, will practically stop in mid-air. If you don't collide, you'll overshoot, and the next thing you know they'll be shooting at you. I find the optimum range for opening fire to be around what looks like 100 yards. This lets you hit them, correct the deflection angle and fire a second burst to finish things off without any risk of overshooting or collision.

Shooting down bombers is another story. If you're flying for the Allies and find yourself against Ju-88s (relatively rare), ignore your leader's orders, ignore the bombers, and go for the fighters. You might give a bomber a quick squirt, as "Johnnie" Johnson would put it, if it happens to pass across your sights. Other than that, don't even think about them until the fighter escort is dealt with. Although the bombers will be out of sight by then (the visibility range in AOE is about 3 miles in fair weather), you should be able to pinpoint their position on the flight map.

A word about that flight map. Because of its scale, plane formations won't show up unless they are only about a dozen miles away. If you patiently click the mouse on the empty land around the little airplane showing your position, you'll get a window informing you of the location of the nearest plane formation (although sometimes, the sim will identify plane wrecks on the ground as an active flight).




**DOWN IN FLAMES** Bringing down an enemy ace is much harder than in ACES OF THE PACIFIC, but patience will be rewarded.

### BOMBER INTERCEPTION

If there's a fighter escort, make one pass at the bombers, following with a second one if it's safe. When armed with Gr.21 rockets, dive behind and below the enemy. The moment the rearmost bomber starts to "fill out," taking the shape of an actual airplane, fire the rockets straight ahead, *without* aiming upwards as recom-


**DSP Dual 16 Multimedia $298**
- Western Digital-Paradice16 DSP Sound Card (Wavetable Upgrade)
- Sony CDU-33ADual-SCD-ROM Drive
- Shielded Speakers
- Microphone
- Biogrip Joystick
- 4 CD Titles:
  - ChessMaster 3000
  - US Atlas
  - World Atlas
  - Mavis Beacon Teaches Typing

**Flight Yoke 2000**
FREE: Ace of the Pacific Software
Features:
- Functions like 2 separate joysticks
- Full horizontal-vertical control
- Includes sturdy desktop clamp and suction cups

$68

**Turbocharge CD Rom Now! $298**
- Sony CDU-33A Double Speed CD-Rom Drive
- SoundBlaster 16 MCD
- Shielded Speakers

**CD ROM Drives**

| | |
|---|---|
| Chinon CD-535 Int SCSI II | $308.50 |
| Chinon CD-535 Ext SCSI II | 398.50 |
| Mitsumi FX-001D | 155.50 |
| NEC 210 320ms SCSI II | 171.50 |
| NEC CDR-510 3Xspeed SCSI II | 388.50 |
| Panasonic 562/563 | 158.50 |
| Plextor (Texel) 3028 Int SCSI II | 268.50 |
| Plextor (Texel) DM 5028 Ext | 378.50 |
| Sony CDU-33A | 155.50 |
| Toshiba 4101B Int SCSI II | 208.50 |
| Toshiba 3401B Int SCSI II | 308.50 |

**Sound Cards**

| | |
|---|---|
| Cardinal DSP 16 | $128.50 |
| SoundBlaster 16 MCD | 134.50 |
| Advance Gravis UltraSound | 128.50 |
| Turtle Beach Monterey | 398.50 |
| Orchid Sound Wave 32 | 198.50 |
| Prometheus ARIA 16SE | 158.50 |

ADS GAME ZAPPER $81.50

**Children's Pack $69**
1. Interactive Sorytime III
2. CD Duo (Maria's Missing, World Atlas)
3. Just Grandma & Me
4. Macmillan Dictionary for Children

**Education Pack I $78**
1. Grolier's Encyclopedia Ver.6.0
2. The Animals (Ver.94)
3. Mayo Clinic-Family Health
4. Mavis Beacon Teaches Typing
5. ChessMaster 3000
6. US Atlas
7. World Atlas

**Fun Pack $88**
1. C.H.A.O.S. Continuum
2. Dracula Unleashed
3. Indiana Jones: Fate of Atlantis
4. Space Quest IV

**Super Fun Pack $88**
1. Days of Tentacle
2. Mad Dog McCree
3. Space/Dinosaur Adventure
4. Star War Chess

**Super Duper Fun Pack $96**
1. Gabriella's Knight
2. 7th Guest
3. Iron Helix
4. Jutland

**Top 25 CD Titles**

| | |
|---|---|
| 7th Guest | $35.50 |
| Animal San Diego Zoo | 24.50 |
| Arthur's Teacher Trouble | 26.50 |
| C.H.A.O.S. Continuum | 30.50 |
| Compton's Family Choice | 28.50 |
| Compton's Interactive Encyclopedia V.2.01 | 58.50 |
| Compton's New Century Encyclopedia | 48.50 |
| Days of Tentacle: Maniac Mansion | 38.50 |
| Dracula Unleashed | 37.50 |
| F-15 Strike Eagle III | 25.50 |
| Family Doctor 3rd Edition | 22.50 |
| Gabriella's Knight | 35.50 |
| Grolier's Encyclopedia V.6.0 | 35.50 |
| Guidebooks to Mathematics | 22.50 |
| Indiana Jones: Fate of Atlantis | 38.50 |
| Interactive Storytime III | 26.50 |
| Iron Helix | 32.50 |
| Just Grandma & Me | 25.50 |
| Mad Dog McCree | 35.50 |
| Master of Orion | Call |
| Money Magazine | 28.50 |
| Rebel Assault | 43.50 |
| Return to Zork | 27.50 |
| Space Adventure/Dinosaur Adventure | 28.50 |
| Where in the World is Carmen San Diego | 24.50 |

"State of the Art of Sight & Sound"

DIRECT WAVE

1-800-882-8108

4620 East Brickell, Ontario, California 91761
Purchasing Dept. (909) 460-2587 • Fax (909) 460-2589

Terms & Conditions
1. 30-day money back guarantee.
2. Not responsible for mis-print.
3. All Products come with manufacturers warranty.
4. No merchandise accepted for return without an RMA#.
5. Price and availability are subject to change without notice.
6. Shipping and Handling charges are extra and are non-refundable.

We accept most major Credit Cards

Open M-F 7:00 am 6:00pm Sat. 8:30 am 12:00pm PST

30 DAY LOWEST PRICE GUARANTEE

Circle Reader Service #61



**THE ULTIMATE ROLE-PLAYING AID**

Introducing **The Ultimate Character Editor.** This exciting new product features full mouse and keyboard support, online context sensitive help and a complete windowing system (does not require MS Windows to run). This editor allows you to edit the 42 games listed below in boldface type. The price for this editor is $59.95. That's under $1.50 per editor. Upgrades will be available for new games as they are released for only $9.95 per game.

**CHARACTER EDITORS - $19.95 each**
**Might and Magic (1, 2, 3, 4, 5), Pool of Radiance,** Hard Nova, **Bard's Tale (1, 2 or 3),** Wasteland, Dragon Wars, Space Rogue, Wizardry (Edits 1-3), Wizardry 4, Wizardry 5, **Bane of Cosmic Forge, Crusaders of the Dark Savant, Treasures of the Savage Frontier,** Sentinel Worlds I, Knights of Legend, **Secret of the Silver Blades, Curse of the Azure Bonds, Champions of Krynn,** Space 1889, Drakkhen, Keys to Maramon, MegaTraveller (1 or 2), Keef the Thief, Escape from Hell, **Ultima Underworld (1 or 2), Twilight** 2000, **Gateway to the Savage Frontier, Planet's Edge, Dark Queen of Krynn,** Prophecy of the Shadow, **Dark Sun, Martian Dreams, Realms of Arkania, Challenge of the 5 Realms, Bloodstone, Betrayal at Krondor, Lands of Lore, Dungeon Hack,** Disciples of Steel.

**HINT BOOKS - $9.95 each except where noted**
Might and Magic 1, Knights of Legend, Curse of the Azure Bonds, Champions of Krynn, Legacy of Ancients, Dark Heart of Uukrul, Wizardry (1, 2, 3, 4, 5, Bane or **Crusaders ($12.95)**), Eye of the Beholder 2, **Might and Magic 3 ($12.95).**

*IBM listed. Apple and C64 versions also available.*
*Please add $4.00 for shipping and handling.*
*Open from 9 AM - 9 PM every day for your convenience.*

MasterCard VISA

**GOSSELIN COMPUTER CONSULTANTS**
**P.O. Box 1083 · Brighton, MI 48116 · (313) 229-2453**

Circle Reader Service #69



**ALL DECKED OUT** "Gabby" Gabreski was America's top ace in Europe, downing 31 planes.

mended by the manual, since they will rise in a parabolic trajectory anyway. You almost can't fail to bring down a bomber this way, and you'll always split them up.

If there's no escort and you still have ammo for your cannon, don't make close firing passes at the bombers—the defensive fire is really fierce. Instead, switch your guns to cannon alone and pursue the fat boys below and behind. The moment your target begins to fill out on the screen, cut the throttle, raise the nose, aim carefully, and fire away in short bursts. You will still be out of range of defensive fire, and should be able to bring down several bombers in this manner before you run out of cannon shells. Then, switch to the machine guns, and make a few high speed side passes, aiming for the cockpit. Once, I managed to down a Liberator with just eight bullets from each gun. By contrast, spraying the whole aircraft with fire could use up all your bullets on a single plane.

### GROUND TARGETS

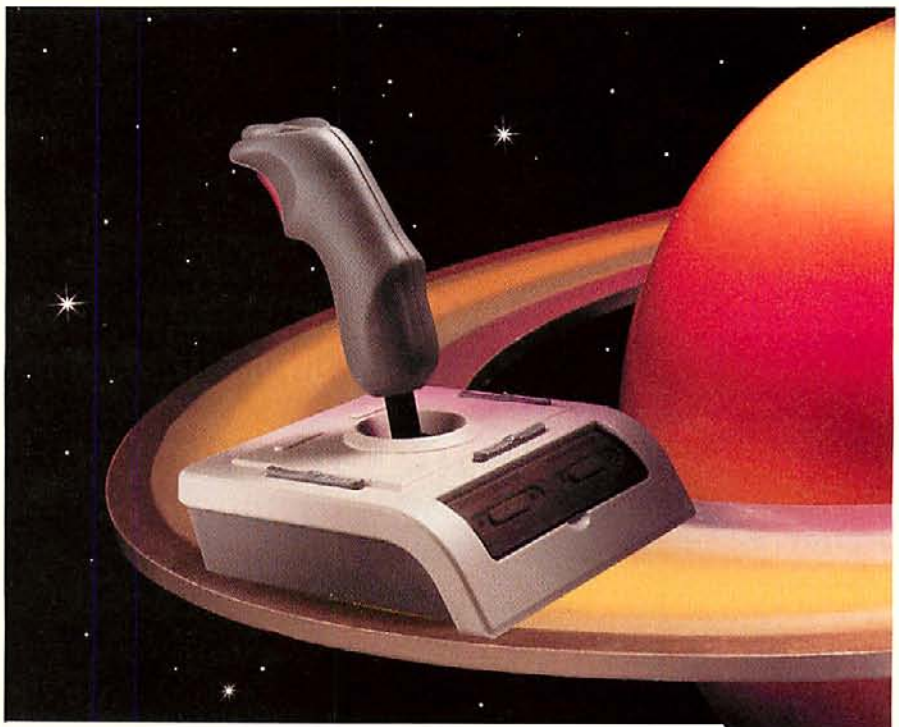
In attacking ground targets, there is only one golden rule: keep below 200 feet on your way in and out. The flak in AOE is dangerous, but it won't fire at you when you're that low. Though you may catch a few bullets from machine guns, you will very rarely have any consequences from these attacks. If you do suffer damage over the target and you've encountered enemy fighters on the flight in, and did not shoot *all* of them down, turn to the flight map to plot a new path home. Otherwise, you'll run into the remaining enemy planes again.

Adolf Galland, the German fighter ace, enumerated four qualities necessary in a fighter ace. These were: very good eyesight, very quick reflexes, very great self confidence, and a very good shooting eye. In AOE, very good eyesight should be replaced by very good dimensional imagination because of the limitations of the medium. However, the remaining three conditions hold as true as they did in reality.

Happy hunting!



**NIFTY FIFTIES** Hubert "Hub" Zemke inspects the 50-caliber machine guns on his Thunderbolt.

New "Saturn-Ring" technology runs circles around other flight sticks.




Introducing FlightMAX™, the Advanced Flight Control Console with "Saturn-Ring"* Direct Drive Technology. This exclusive innovation eliminates the X and Y-axis bias found in ordinary flight sticks. No matter where the control stick is positioned, tension remains equalized for constant 'G' 360 degree tracking.



360° equalized tracking

The result: Pin-point precision for PC pilots. FlightMAX also features a wide base for extra stability, a Rudder Control, plus a unique Throttle Control for both right and left-handed pilots. FlightMAX. MAXimum enjoyment for flight sim software.

Suncom TECHNOLOGIES

*The Hardware Advantage for Entertainment Software*

6400 W. Gross Point Rd., Niles, IL 60714

708/647-4040

Circle Reader Service #182

"A man of war is the best ambassador"
– *Cromwell*

# EMPIRE DELUXE™
## MASTERS EDITION

"Nominated: 1993 Strategy Game of the Year"
*–Strategy Plus Magazine*

"Top Ten Wargames"
*–Compute, January 1994*







- CD-ROM 'Plug-and-Play'
- Excerpts and strategy tips from the Empire Deluxe Strategy Guide
- Exceptional value: contains Empire Classic, Empire Deluxe DOS and Windows, and Empire Deluxe: Scenarios

Lead your troops through the trenches in historic, modern, and futuristic battles. Declare war on up to 6 of your friends and fight via modem, E-Mail, network, or serial port connection. Empire Deluxe Masters Edition has everything you ever wanted in a war game, and more.

***Available at your local software retailer or order direct from New World Computing at 1-800-325-8898. (818-889-6070 outside the U.S.) or by mail: P.O. Box 4302 Hollywood, CA 90078-4302***

© 1994 New World Computing, Inc. Empire Deluxe is a trademark of New World Computing. New World Computing and its distinctive logo are registered trademarks of New World Computing, Inc. All rights reserved. IBM screens shown. Actual screens may vary.

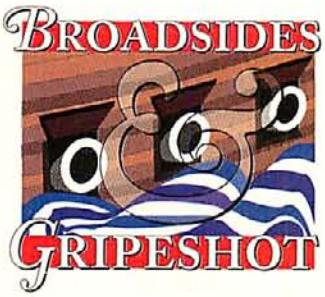
NEW WORLD COMPUTING, INC®
P.O. Box 4302, Hollywood, CA 90078

Circle Reader Service #152

# Bridging the Gap From Paper to Pixels

THE RESURGENCE OF COMPUTER WARGAMES SHOWS NO SIGN OF RETREAT, AS SEVERAL PAPER WARGAME CREATORS MAKE THE SILICON LEAP.

by Alan Emrich




MANY READERS OF THIS COLUMN ARE MEMBERS OF THE OLD SCHOOL WHOSE WARGAMING PREDATES HOME computers. I suppose you could say there were "computer" wargames before the 1980s, but the processor was your brain, and the interface was not mice and keyboards but dice and cardboard.

Some converts to computer wargaming consider the continued existence of a board wargaming hobby as "quaint," those paper tigers seeking CPUs, while staunch defenders of the board game hobby see computers as lacking in sophisticated game designs, historical accuracy, and real opponent intelligence. Recent developments suggest that these two camps may soon be pitching their tents closer to one another, as several traditional paper wargame companies are making a mad dash to convert the best of their game designs to the PC.

It is no secret, for instance, that the oldest producer of board wargames, **Avalon Hill**, is making a renewed and serious entry into computer wargaming. Paper-to-processor conversions from "The Hill" include their KINGMAKER, BLACKBEARD, THIRD REICH and ADVANCED CIVILIZATION.

However, it is noteworthy that Avalon Hill's biggest wargame-producing competitor was **SPI** (Simulations Publications, Inc.), under the leadership of Jim "I disavow Victory at Sea" Dunnigan. When **TSR, Inc.** (the DUNGEONS & DRAGONS people) foreclosed on SPI in the early 1980s, many wargamers saw it as a black day. Now, Dr. Christopher Cummins of **Decision Games**, publishers of *Strategy & Tactics* magazine, has acquired the rights to SPI and all its titles owned by TSR, Inc. (and there are scores of them).

What does that mean for we silicon soldiers of fortune? Well, all of those great designs will no longer be relegated to the dusty shelves of collectors. "Doc Decision" will be sponsoring the release of an IBM and Amiga version of SPI's classic strategy boardgame, EMPIRES OF THE MIDDLE AGES. This excellent strategic level game covers about a thousand year chunk of European history over several scenarios. The elegance of the original Jim Dunnigan boardgame design has not faded with age, so look for

## G-2

* Alliance Interactive Software, under their Digital Illusions label, will be publishing Arsenal Publishing's previously previewed TACOPS and EUROPEAN THEATER OF OPERATIONS: D-DAY games. They'll also be distributing Big Time Software's FLIGHT COMMANDER.

* Speaking of FLIGHT COMMANDER, designer/developer/janitor Charles Moylan says that the IBM conversion will be extremely faithful to the original Mac design and is "about two-thirds complete." DOS-heads will love its board wargame tactical feel, enhanced by considerable computer panache.

* In response to an on-line controversy-turned-brouhaha, MicroProse will not allow players to command SS panzer formations in the initial release of their upcoming ACROSS THE RHINE, a West-Front WWII tank simulator. Instead, death's head tankers will have to wait for the game's first expansion disk.

* Origins, the national game convention, is putting more emphasis on computer gaming this year. It's taking place in San Jose on July 7-10 and has been dubbed "Silicon Origins." Besides several computer wargaming companies, CGW will be attending. Care to join us? For more information, call (216) 673-2117.

*(continued on page 108)*

## G-2 (continued from page 107)

* Why have the Pentagon's "game" experts taken a sudden interest in InterPlay's BUZZ ALDRIN'S RACE INTO SPACE? Simple. It's a game about procurement and managing scarce resources while deciding which programs to pursue and which ones to cut. That sounds like the military of the 90s to me.

* And what of Sid Meier's Civil War? In an interview, *CGW* discovered that the game's major design hold up has been resolved. Previously, players were having difficulty transitioning from the grand tactical (i.e., brigade/regiment level) combat system back to strategic planning. Now, it seems, the game's focus will shift more toward conducting grand tactical battles, and thus provide for a more consistent playing experience. While not yet back on the front burner, SID MEIER'S CIVIL WAR is, at least for now, off the back burner.

this title to be released through **RAW Entertainment** later this year.

While Decision Games is following the route of having their boardgames thrust upon them from out-of-house designers, that has not failed to net them a second silicon conversion. One game included in *Strategy & Tactics* magazine, THE FAR SEAS, will be coming out as shareware for the IBM "real soon now." This was an intriguing game of German global commerce raiding during World War I. Frankly, I expect to see this lead to some "help wanted" ads soon, as Decision Games/SPI seeks programmers to computerize their wargame titles and continue empire building on the electronic battlefield.

But Decision Games/SPI and Avalon Hill are not the only paper pushers to seek the light of your monitor. Although most wargame companies, I'm sure, would listen to anyone willing to translate their products onto a computer platform, many of them have found a convenient bridge over the gap in AIDE DE CAMP, the award winning play-by-email kit generator from Scott Hamilton's **HPS Simulations**. Even as Scott begins work on a massive, backward compatible 2.0 version update, boardgame companies 3W, Moments in History, *XTR/Command* magazine, and Rhino have joined The Gamers and Decision Games in supporting AIDE DE CAMP with pre-generated PBEM kits for some of their games. With Decision Games picking up the SPI line, we'll be playing WAR IN EUROPE and other classic "monster" boardgames by email more and more in the very near future.

### OLD SSI WARGAMES ARE BACK IN PRINT!

Many of us made the switch from our old Apple, Commodore and Atari computers to the present day gaming realities of IBM at a price. We paid more than mere dollars when we converted to the world of MS-DOS, we also made our collection of wargames obsolete.

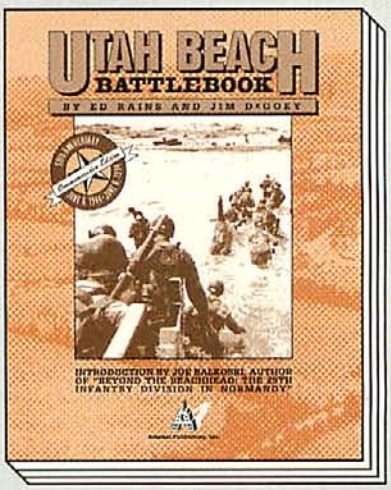
For all those who wish they could still acquire copies of those long out-of-print SSI wargames of yore, here is your chance. **Novastar Games** has garnered the rights to reprint such wargaming classics as our Hall of Fame winner GETTYSBURG: THE TURNING POINT in the IBM format. These are straight reprints, though, sold in plastic bags and with photocopied manuals. They have not been upgraded or reprogrammed in any way.

To obtain a listing of the games available (including such titles as SECOND FRONT, BATTLES OF NAPOLEON, KAMPFGRUPPE, MECH BRIGADE, STORM ACROSS EUROPE and WAR IN THE SOUTH PACIFIC), call Novastar directly at (916) 624-7113. These reprinted games are selling for $15 each, with a discount for purchases of three or more. That's a great price for these wargaming classics.


# AT LAST, LEARN THE AMAZING STORY BEHIND UTAH BEACH

On June 6th, 1994, the 50th anniversary of the Normandy invasion during World War II, Arsenal Publishing proudly released the long-awaited *Utah Beach Battlebook*.

Written by Ed Rains, one of the original designers of the *V for Victory* series, and Jim DeGoey, the author of the critically-acclaimed *Harpoon Battlebook*, this book about Three-Sixty Pacific's award-winning *Utah Beach* historical simulation reveals for the first time the amazing story behind the game's development, how the program resolves combat, and the design concepts behind the game's three combat results tables. Profusely illustrated with actual game screens, all players will benefit from the comprehensive scenario analysis and tactical guidelines that show how to win as either the American or German commander.




But, the *Utah Beach Battlebook* is as much about the history of the battle for Utah Beach and the Cotentin Peninsula as it is about the *Utah Beach* game. Included are a day-to-day account of the 1944 campaign, over 70 historical photographs, situation maps, and a wealth of information on the American and German military units, commanders, and weapons that faced each other fifty years ago.

The *Utah Beach Battlebook* is a limited edition available for $19.95 exclusively from Arsenal Publishing. Add $3.50 for shipping and handling. VA residents add applicable sales tax.

**For Visa and MasterCard orders, phone:**
**800-247-1877**
**Send mail orders to:**
**44901 Falcon Place, Suite 108**
**Sterling, VA 20166-9531**

Mail orders require payment in U.S. funds.

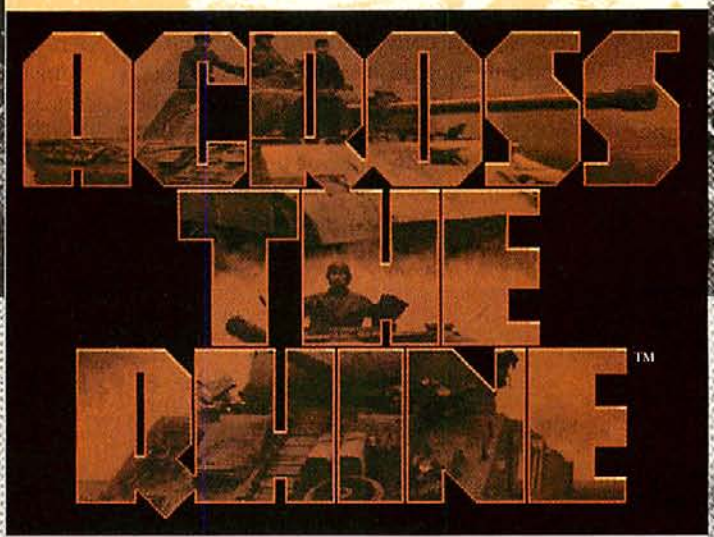
**Arsenal Publishing, Inc.**

© 1994 Arsenal Publishing, Inc. All rights reserved. All other brand names and products are trademarks or registered trademarks of their respective holders.

Circle Reader Service #187

# In 1944, This Was The Only Heavy Metal Touring Europe.

American M4 Shermans. Tigers of the Third Reich. These were the tanks that rocked Europe from D-Day to the fall of Berlin in World War II. The same armored juggernauts that you'll command in the explosive new game **Across the Rhine** from MicroProse.




Jump into history's most famous tanks and experience the fierce combat and tough decisions that gripped World War II tank commanders. Take command of U.S. or German forces. Control single tanks or entire Companies. And blast your way through enemy units across the war-torn landscape of Europe.

**Across the Rhine** from MicroProse. And you thought heavy metal started in the 70's.

*Circle Reader Service #150*

MICROPROSE®

© 1993 MicroProse ALL RIGHTS RESERVED

# He Ain't Heavy, He's My Sovereign



*Avalon Hill's Kingmaker Puts You Behind The Throne*

**by Terry Lee Coleman**

FOR THOSE OF US WHO GREW UP PLAYING BOARD WARGAMES, **AVALON HILL** SEEMS ALMOST A PART OF OUR extended family. Games such as STALINGRAD and TACTICS II are relics of a bygone age, when wargames could still be found on store shelves next to MONOPOLY or RISK! While many wargamers feared that AH would go the way of the dinosaur, the company somehow managed to persevere, even discovering four-color artwork along the way.

As the years went on, AH began to diversify with family games (shudder), sports games (well, OK) and even (say it isn't so) role-playing games, the majority of which sold, and continue to sell, quite well. With the advent of computer wargaming, though, AH's adaptability didn't hit a snag, it came to a screeching halt. Games such as B-1 NUCLEAR BOMBER were dated even when they were released back on the old 8-bit machines. More recently, DIPLOMACY was a flop, and COMPUTER THIRD REICH, seen as a potential savior for AH's "Silicon Simulations," had one of the worst AIs of any wargame released by a major company. Most damning was that the game couldn't even model the rules of the boardgame, so inadequate was the conversion.

**Kingmaker**

**Price:** $59.95
**System:** IBM
**Requirements:** 286 or better, VGA graphics, 5MB hard drive space, mouse; supports AdLib, Roland, SoundBlaster sound cards
**Protection:** Documentation Check
**Developers:** Paul Cockburn, Graham Lilley
**Publisher:** The Avalon Hill Game Company
Baltimore, MD
(410) 254-9200




### A SINGLE, SOLITARY SUCCESS

Since announcing their re-entrance into computer games, the question on every wargamer's tongue is: "Will Avalon Hill ever really manage to get a classic boardgame converted to the computer, and will they do it right?" Sure, OPERATION CRUSADER is great, but that was the guys at **Atomic**, right? And besides, that game is currently only for the Mac—what about us real wargamers that own IBMs? We've been jilted so many times, is this our last chance for the big dance?

While many gamers wait (not so) patiently for the IBM version of CRUSADER, they may find their cares readily forgotten with KINGMAKER, so long as they are willing to contest the Wars of the Roses in solitaire fashion. For KINGMAKER has one great oddity: it's a conversion of a classic multi-player boardgame that has no capacity for more than one player, totally neglecting hot-seating, modem, and play by e-mail.

In spite of this, the game is strangely addictive, and a class act. The first indication that this effort is something fresh is the striking intro art. The opening screens offer a spirited narration of the backstory by none other than Will Shakespeare. Obviously, such can be dismissed as mere fluffery, but the truth is that this actually helps suspend disbelief—especially the authentic British accent, which sounds more than a little like Malcolm McDowell.

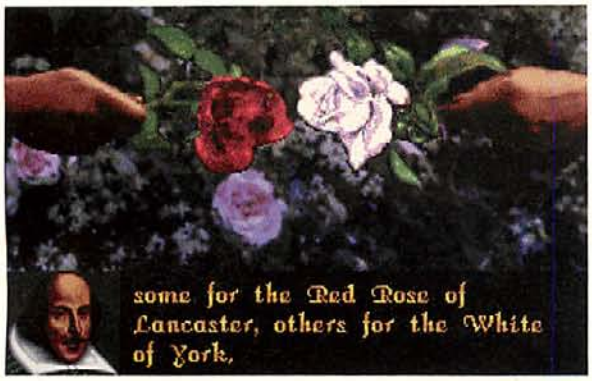
To my surprise, the game ran without crashing, despite the many on-line complaints to the contrary. But it has a mouse-only interface that reminded me of an Amiga game—due no doubt, to the game's European origins. There was not a hot key to be found. What's a real gamer to do?

### THE PARCHMENTS OF PLAY

Many gamers shun documentation. Nonetheless, those used to 290-page tomes of obscure (and often questionable) design justifications, or worse, virtually no documentation (as with far too many games lately), will find the manuals included with KINGMAKER a pleasant departure from the norm and well worth poring over. Splashed throughout with color and eminently readable, the two manuals (historical and game) have been touched by Avalon Hill's deft graphic hand. Anyone reading the reference manual will have little trouble in play, the clumsy interface notwithstanding. In addition to the "need to know" information provided in the Reference Manual, AH has wisely included the historical "nice to know" information in a separate manual for those interested in the historicity of the conflict.

The object of play, for those unfamiliar with the boardgame, is to have control over the last surviving heir to the English throne. To this end, the various forces maneuver nobles of their faction, with their corresponding forces, around the land engaging in combat and attempting to kill off the heirs controlled by the other players, computer-controlled in this case.

Simple? In concept, certainly, but the game's real strength, like that of its boardgame father, is in the variety of ways you may achieve this goal. The nicest change from the version *CGW* sneak previewed in March is the flexibility of the AI.




**A ROSE IS A ROSE** Will Shakespeare sets the stage, as you engage in the gleeful pilfering of royal heirs from the York and Lancastrian houses.

Early on in development, it was readily apparent which factions were most dangerous. Now, the potential silicon opponents are more random in style and in the extent of their deviousness. For instance, one game had Neville ready and willing to cut deals with me for ransoming captured nobles. The next game, he was unbelievably aggressive, threatening to run me right out of the game.

Since gamers always ask if the AI cheats (presumably so they can complain if they lose), I did notice that they seemed to know more of what was going on than the human player. Then again, what good villain doesn't know more than the hero? At least the inevitably few cheats are subtle for the most part. One of the most obvious ways of increasing the difficulty of the game is to deploy before the AI players, similar in fashion to having to set up forces first in a multi-player human game.

### FORGET ME NOT

A large part of the strategy in KINGMAKER is deciding which titles and assets to bestow on your nobles. While the titles are historical, you may choose to have Cromwell be the Captain of Calais, while Greystoke is the Chancellor of England. The latter is one of the most powerful positions in the game, as the Chancellor may call Parliament if there are two crowned heirs in play. As in real life, the clergy also have significant political clout, as only an archbishop or two bishops may crown an heir, and said heir must be in a cathedral for the coronation to be valid.

The various computer players are rather efficient at assigning titles and exploiting their effectiveness. Every office has its limitations, though, as even the powerful Chancellor finds the majority of his strength waning as he moves away from the safe confines of the Tower of London. For nearly every asset, there is a counter. In one game, I was boldly prancing all over the map with my strongest noble, having granted him the office of Marshall of England. Suddenly, I ran into a relatively small noble, Loos, who had the help of Saxon mercenaries. Ambushed, I could only watch in horror as my brave noble was beheaded, with a sonorous voice bellowing out over my speakers, "Thus perish, traitors all!"




**WHERE DID YOU COME FROM?** Computer opponents are rarely predictable, making for an engaging and replayable game.

### STEEL MY SOLDIERS' HEARTS

Combat is a simple affair in the basic game, with increasing odds giving proportionally greater chances to defeat the enemy in classic "count 'em up and roll-the-die" fashion. Although easily learned, the disadvantage of the basic system is that smaller forces cannot win an outright victory and must hope for an indecisive result to fight another day.

The advanced combat system has a miniatures feel to it, simpler than in the recent FIELDS OF GLORY from **MicroProse**, but more fun. Each noble is deployed on a tactical battle display, and you decide how the forces will be split between left, right, center and reserves. You decide what each wing of your army will do, from shooting arrows to closing with a particular enemy force. Tension mounts as one force attempts to rout the other, while the enemy may strike directly at the opposing noble or heir. Since orders in combat are limited to the number of nobles present at the battlefield, often a group of lesser nobles can take down a single mighty force. But their life expectancy is just as short as it is in the basic combat system.

As if battle weren't enough to deal with, random events appear like the plague—quite literally. Each turn, cities succumb to the Black Death, along with any nobles or heirs which happen to be present. Storms may cause ships to find a safe harbor, or prevent a particular battle. Nobles may join your cause, or that of your enemies. But at least the AI players are subject to the same whims of fate as the human.




**TO ARMS, MEN!** Issuing commands is limited to the number of nobles present at the battle, so plan carefully!

Actually, KINGMAKER is philosophically close to, of all things, CIVILIZATION. Like CIV, it has a fairly steep learning curve to master, which is mitigated by on-line hints—which, thankfully, are much more helpful than those found in CIVILIZATION. Those pesky computer opponents play a bit more fair than their CIV counterparts, but they are less forgiving. Human players will have to pay attention to advice from the manual, such as the suggestion to grab an heir on the first turn, as they attempt to juggle the many elements of play. Challenging and fun, despite its lack of high-tech glitz or multi-player options, KINGMAKER establishes a fine beachhead for AH's return to the computer wargame market.

## KINGMAKER

★★★ 1/2

**PROS** Great subject matter, good conversion of a classic strategy boardgame, clever and varied AI

**CONS** No multiplayer option, repetitive animations that cannot be turned off, awkward interface

# Whiff Of Grapeshot



## *Spectrum HoloByte's Fields of Glory Opens Fire*

**by M. Evan Brooks**

*The Tiger has broken out of his den*
*The Ogre has been three days at sea*
*The Wretch has landed at Frejus*
*The Buzzard has reached Antibes*
*The Invader has arrived in Grenoble*
*The General has entered Lyons*
*Napoleon slept at Fontainbleau last night*
*The Emperor will proceed to the Tuileries today*
*His Imperial Majesty will address his loyal subjects tomorrow.*

*—Richard Holmes,*
**EPIC LAND BATTLES**, p. 51

WHEN NAPOLEON RETURNED FROM EXILE, HIS POPULARITY WAS WIDESPREAD, ALBEIT BRITTLE. The Bourbons had not developed any popularity during his absence (Napoleon characterized them as "never forgetting and never learning"), but Napoleon himself was no longer the fighting commander of earlier years. More importantly, his opponents had learned from him. The palindrome ABLE WAS I ERE I SAW ELBA holds a great deal of truth.

FIELDS OF GLORY (FOG) attempts to simulate Napoleon's Hundred Days campaign with six scenarios: Quatre Bras, Ligny, Wavre, and Waterloo, plus the fictional battles of Nivelles and Wagnee, the former postulating an earlier meeting engagement against the British, and the latter assuming a Prussian attempt to maneuver behind the French right wing. In addition to historical deployments, you may choose non-historic and free deployments, plus five levels of computer opponent complexity.

FOG features real-time game time. Time marches inexorably on, requiring you to act rapidly and decisively. As will be seen below, this offers both advantages and disadvantages, but the final question must be whether the simulation offers a historically accurate *and* entertaining experience.

### MANUAL MANEUVERS

An introduction by David Chandler, the foremost Napoleonic historian, and an extensive bibliography round out the historical background for the manual. The accounts of the individual battles are succinct but clearly drawn, and the information on how to play the game is similarly well-done. The best part of FOG's documentation, however, is the database in the game. Details of units, battle honors and commanders—even down to brigade level—are easily accessible from the program. This is one of the best orders of battle ever developed for the computer, and almost justifies the game's purchase by itself.

The colorful VGA graphics offer map scales in one, four, and eight mile increments. Having actually visited Hougoumount, I can vouch for the fact that the terrain representations are accurate. At the larger scales, troops are represented by battle flags; at smaller scales, in miniatures fashion, one figure represents 70 individuals. The overall feel is good, with uniforms and equipment varying according to historical appearance.

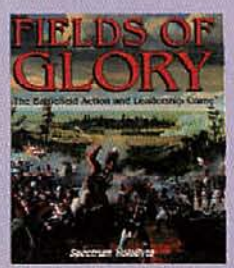
Traditionally, sound has been of minor importance in operational wargames, but the use of sound in FOG is unusually effective. In addition to impressive battle sounds, cavalry charges and recalls, each side has historical military music as an accompaniment. The French military airs are the same as those from the movie *Waterloo*. FOG is the first wargame that I have ever booted just to listen to the music.

### TAKING CONTROL

All commands are issued with the mouse. You simply point to a unit, and an order menu appears. Orders can then be given in terms of formation (line, column, square, mixed, skirmish) and movement (assault, deploy, hold, withdraw). Artillery can be directed to fire against a particular target. It's all quick and easy, but maneuvering an army can be a challenging task. Commanders are rated in terms of competency, leadership and personality. You would do well to check your commanders carefully, and adjust the subordinate orders depending on the commander's abilities.

It is all too easy to be diverted to a particular segment of the battlefield, while ignoring the larger picture. While such attention to detail and its accompanying detrimental impact may be a historical truism, it still leaves an unsatisfying taste in the gamer's mouth. Time may be slowed down, but it still passes too quickly

**Fields of Glory**




**Price:** $59.95
**System:** IBM
**Requirements:** 386-16MHz, 2MB RAM, VGA graphics, 15MB hard drive space, mouse; supports AdLib, Sound Blaster and Roland sound cards
**Protection:** Documentation Check
**Designers:** Jim Bambra, Adrian Earle
**Publisher:** Spectrum HoloByte
Alameda, CA
(510) 522-1164

for the user attempting to fight the battle at brigade level. Conversely, time passes too slowly when fighting at the corps level. While you may choose from three speeds, I'm still uneasy with the time scale.

Playing FOG successfully consists of balancing your time between the brigade and corps levels. Napoleon himself observed that he could always regain space, but never time. Thus, you set your forces in motion and intervene at the moments of crisis. Napoleon was a master at surveying terrain and determining the likely crisis points, as well as visually determining when and where to deploy his forces. For you, it is not so easy. Determining when to form square against cavalry or when to send forth your cavalry can be a momentous decision. Forming a square too early permits the unit to be raked by musketry and cannon fire; initiating a cavalry charge too far away can break its impact on a square's bayonets. Only experience will enable you to do this effectively.

Moving against buildings can be a confusing task. It's difficult to determine when troops can actually move into advantageous terrain, as opposed to merely stumbling around in front of the stone structures. The historical sand pit and sunken road are present at Waterloo, but their impact seems to be minor.

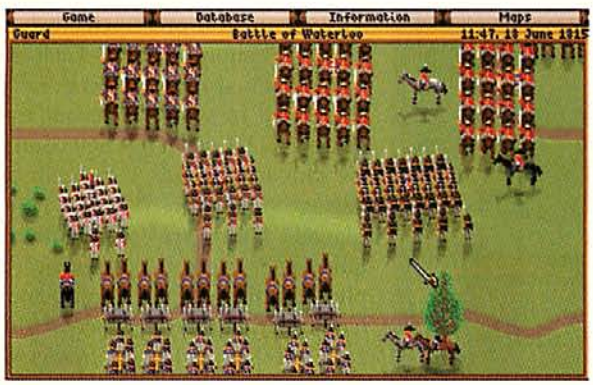
As units take casualties, the battlefield becomes strewn with corpses and the detritus of battle. Some users have complained that this detracts from the game, since it becomes too confusing to determine what is happening. I disagree. A battlefield is a confusing arena, and the sounds and sights in FOG are only a minimal representation of what is historically accurate. Those who insist upon an antiseptic battlefield can nonetheless save a game and restart from the saved position to remove the distracters.

### PICKING BONAPARTES

Unfortunately, the computer opponent seems incapable of battlefield optimization, even at the highest levels. When playing the British against the French at Guard level (the most difficult setting), I did absolutely nothing, just to see what would happen. At Waterloo, the French did a credible job of battering the British center, but then refused to advance. The battle ended hours later in an indecisive result. Historically, such uninspired British leadership would have resulted in a massive defeat. The computer opponent reacts to the user's input, generally resulting in a head-on engagement with roughly equivalent casualties on each side. Attempting to secure a strategic victory is a difficult task, but one that can be accomplished by tricking the computer into advancing into "killing zones" with a few sacrificial units. Of course, the problem in creating a proper killing zone is that the rest of the battle continues on its inexorable course. The balance between hands-on and hands-off maneuver is a delicate proposition.




**A WHIFF OF GRAPESHOT** French cannons sound off in unison near a small chateau.




**RANK AND FILE** Your forces are arrayed on the battlefield with the feel of a tabletop miniatures wargame.

You *cannot* fight the battle exclusively at corps or brigade level. The latter clearly is too much to accomplish; the former simply does not work. Giving a corps commander the order to advance often results in units retreating in order to form a cohesive corps. You must fight the battle at different levels, which is both interesting and aggravating.

In looking at FOG, I am reminded of the classic boardgame *Napoleon's Last Battles*. With a roughly equivalent scale, the boardgame offered the four historical battles *plus* the entire campaign. The lack of a campaign option was a major disappointment, until I realized that the game mechanics were incapable of accurately portraying such an event. The real-time of FOG makes the Waterloo battle itself virtually too large to manage well; a campaign option would simply be unplayable. The end result is that FOG offers an insight into the ambiance of the Napoleonic battlefield, but also makes generalized tactical solutions dependent on particular events.

At Waterloo, when the Prussians arrive, the British player will discover that he cannot access the allied units. Initially, I found this to be disturbing; however, upon reflection, I feel it is an inspired design choice. Coordination between the British and the Prussians was tenuous at best, and by using the Prussians as a non-controlled ally, the simulation actually better represents the Prussian role than most games. Thus, you must adapt your battle plans to the Prussians; usually, this is not decisive because the overall pattern of the battle will generally be apparent before their arrival.

Victory can be a deceptive goal. Overall casualties are not easily accessible, and you are often left unsure as to the overall flow of battle. While the casualties may be accessed from the database, this is a cumbersome process. There doesn't seem to be a clear breaking point when the opponent withdraws from the field, and satisfying as it may seem to kill the enemy command staff, this has little impact on the combat troops.

### FORWARD —FOR GLORY—FOR FRANCE!

Though it has its problems with AI, time scale and obscure victory conditions, FIELDS OF GLORY is both challenging and interesting. I wouldn't recommend it to a general wargaming audience, but those with an interest in the period will find much to tickle their Napoleonic fancy.

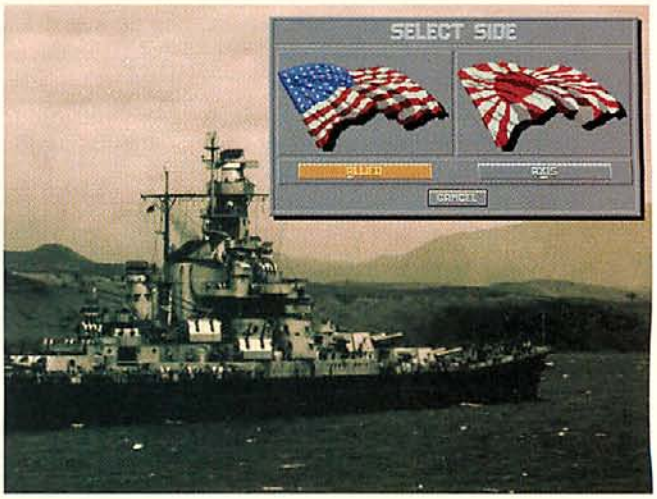
### FIELDS OF GLORY

★★★

**PROS** Covers a neglected historical period, good on-line database, sounds, battlefield graphics

**CONS** Command schizophrenia, poor AI and play balance, awkward interface

# How Does Ironbottom Sound?




*SSI's Great Naval Battles II Sails to Guadalcanal*

**by Josh Bruce**

THE NIGHT IS STILL, THE ONLY SOUNDS AN OCCASIONAL COUGH AND THE WHISPER OF STEEL BATTLE CRUISERS slicing through the midnight blue waters. Patrol in "The Slot" requires days of loneliness, followed by stark minutes of sheer terror. I look in vain for our enemies, but see nothing in the inky blackness. Suddenly, an explosion lights up the straits with an incandescent fireball, and ships of both sides are transformed from their dreary gray, as the horrifyingly vibrant colors of gunfire and starshells fill the night. The Tokyo Express has arrived, right on schedule.

For years, while checking out the latest wargame releases, my eyes would invariably wander to the new CRPG's just to see the pictures. I mean, sure, they were full of exploding gnomes, but they always had the nicest looking exploding gnomes. It just never made sense to me why GABRIEL KNIGHT, a game about voodoo and New Orleans, could have these incredible blood-and-violence graphics, while PACIFIC WAR, a game about blood and violence, got stuck with the "we'll add pictures if it's in the budget" style of programming. Fortunately, this has changed with SSI's new release, GREAT NAVAL BATTLES VOL. 2, GUADALCANAL (GNB2). It has enough looks, detail, and enough chrome to choke a restored '57 Chevy. But how does it sail?

**Great Naval Battles Vol. 2, Guadalcanal**



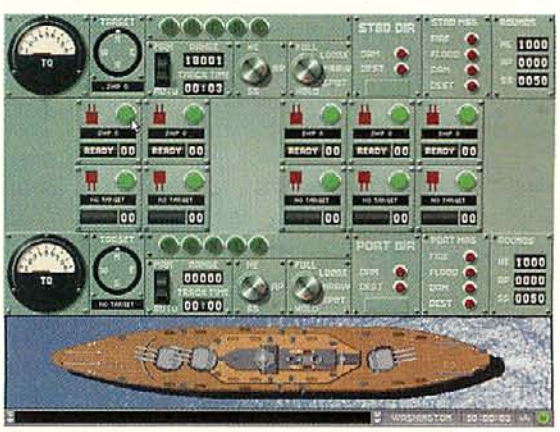

**Price:** $69.95
System: IBM
**Requirements:** 386/33 MHz, 4 MB RAM, SVGA, 14 MB Hard Drive space, mouse
**Protection:** Documentation look up
**Designer:** Roy Gibson
**Publisher:** Strategic Simulations, Inc. Sunnyvale, CA 94086-2901 (800) 245-4525

## SAILING WITH NEW TRIM

The graphics on GNB2 are simply superb. Each ship is presented in stunning SVGA graphics, with any and all damage visually displayed. There are quite a few period photographs which have been digitized and pressed into service as dramatic backdrops and there are various animation sequences on a number of screens. At times, the graphics are truly astounding, significantly beyond most of the wargame graphics seen before now.

Even the game manual is stunning. It weighs in at 162 pages and easily half of this is occupied by ship, aircraft, and armaments dossiers. Unfortunately, the half-hearted and very brief historical commentary would make Marvel Comics look definitive, especially considering that everyone isn't an expert on the battle of Tassafaronga. Worse, the rest of the rules manual fails to adequately explain all of the various ship systems and controls, despite its claim as a comprehensive naval simulation. Even after reading the manual twice and playing all three tutorials several times, it took me more than ten hours to learn how to command all the ships efficiently.

Each ship has eight stations that can be accessed; task force, bridge, main guns, secondary guns, torpedoes, aircraft, damage control, and lookout. These are theoretically available for every ship, though some may be inoperable. For example, an aircraft carrier carries no torpedoes, and a destroyer obviously has no aircraft. As you command several task forces with a number of ships in each, it rapidly becomes obvious why the learning curve is so long.




**READY...AIM...WAIT A MINUTE** Micro-managing every detail can be interesting, but it does tend to slow your ship's reactions to opposing vessels.

# Fail And The Whole Planet's Going To Feel Alienated.

Earth has some uninvited guests. Thousands of violent, grotesque aliens have landed, forging a trail of murder, kidnappings, and terrorism across the planet. As the leader of *X-COM*, the nations of the world are counting on you to crush the alien menace.

From bases around the globe, you'll lead the deadly search and destroy missions recruiting and arming soldiers with laser weapons and alien-blasting artillery. Chasing down futuristic UFOs aboard your Interceptors.

But it'll take more than man-to-monster combat to defeat these awesome aliens. You'll need a working knowledge of alien technology and solid battle strategy. They may be ugly, but they ain't dumb.

*X-COM* from MicroProse. Get your copy today. Or the whole world's going to regret it.




MICROPROSE®

A Division of Spectrum HoloByte®, Inc.

© 1994 MicroProse. ALL RIGHTS RESERVED.

**1-800-879-PLAY**

# Q.Q.P.'s Strategies of the Month

By:Steve Cohen

**The Grandest Fleet**

"Don't do it", I yelled at the machine as my Flagship sunk to the bottom of the sea. I have finally learned that flagships are not invulnerable. Next time I will protect it with more than just 1 or 2 ships. No more Mr. Nice Guy...I will get more devious. Hmmm...A pre-emptive strike with 4 or 5 subs will do some serious damage to his front line forces, followed quickly with a clean up force of carriers and battleships. I will, however need to use my PT boats to be my eyes and ears before the ruckus begins.

**Zig Zag**

The alphabet box can be a very helpful utility in solving the puzzles. Putting an X on the chart next to the letters that are in the word really lets you see things clearer. Try this challenge; Score over 25,000 points on a 7 letter word without using the alphabet box to aid you.

**Origamo**

When traversing the maze, remember that you can get past certain obstacles by entering their part of the maze and simply go past him to the adjacent room. You may not be able to play his puzzles, but you can move right past him. Don't panic when playing a faster moving conveyer, just relax and put some blocks in the dump, you do have 50 pieces to throw in the dump.

**Bridge Olympiad**

Experienced bridge players should try all the bidding conventions. Each plays slightly different, but can add more spice to your own playing style. Also...try the different partners, they do have different personalities and playing styles.

**The Pure Wargame**

Be real careful about your modes. Forced march, can change the way your troops react in some crucial situations, thus it should only be used in certain situations. The AI is quite strong so don't underestimate your opponent.

Q.Q.P. 495 Highway 202, Flemington N.J. 08822
(908)788-2799

For example, by accessing the main gun station, players can choose what type of salvo to fire (spotting, loose, normal, or tight), what type of ammo to use (star shell, high explosive, or armor piercing) and can go into each individual turret for a view of the targeted ship and manual aiming of the gun. Simple enough in theory, but hardly so in practice. Let's say you have three task forces, each with four cruisers, and each cruiser has three main turrets. That means that there are 36 turrets to choose from, in addition to handling all the other myriad options. What saves you from becoming a micro-manager is that each station can be controlled by the computer.

Herein lies the inner beauty of GNB2. While players can control *all* equipment of *every* ship in *every* task force involved in the battle, the computer can adequately handle most of these functions. It is a simple matter of pointing and clicking to change any station from automatic to manual, but most players will find a few stations to call home and leave the rest to the computer. For example, I will normally delegate all stations to the computer except for navigation (to implement tactics), gunnery (to mass fire) and damage control.

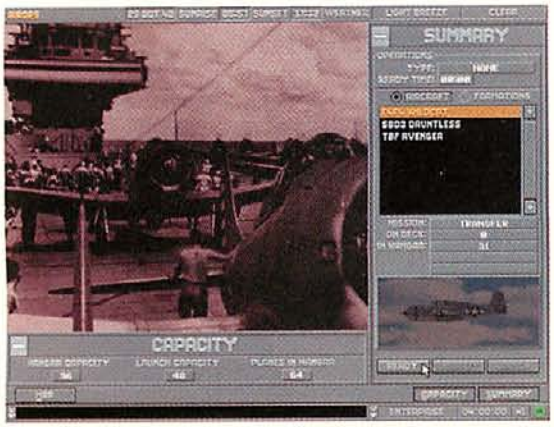
Why the latter? Because it's a great deal of fun. In fact, this ability that most other games gloss over is one of the high points of GNB2. Ships are divided into two or three levels overlaid with a grid, with each resulting square containing various types of equipment ranging from magazines to propeller screws. When damage occurs, some squares will be destroyed, fires will start, and flooding will occur. Fire and flooding will spread rapidly if unchecked, but can be combated through the use of damage control parties. Water pumps can counter-flood the ship, pump out flooded compartments, or put out fires. This is really a sub-game within GNB2 as you attempt to keep your ships floating, and provides an interesting perspective for any would-be admiral.

### CHOPPY SEAS

Nowhere is GNB2 weaker, however, than in its handling of the air campaign, which seems added almost as an afterthought. To illustrate how awkward GNB2 can be, in order to launch a search mission you must ready the planes at every available airfield or ship that has them, including battleships and cruisers, which also carry search aircraft. After waiting 30 minutes, you access all of these myriad units yet again to launch the airplanes, pick a spot for them



Circle Reader Service #179




**HIT THE DECK** The idea of having planes in GNB2 is nice, but doesn't really fly in this naval gunnery-based game system.

to fly to, and select the angle of search. To call this cumbersome is too kind. GNB2 is many things, but it is not an air combat game and shouldn't attempt to be.

The seven battle scenarios are quite good the first time you play them, but suffer from being *too* historically accurate. Enemy forces will always appear in the same strength, at the same point, at the same time every time you play it, which tends to limit replay value. Without a random scenario creator or a scenario editor this game is doomed to sit untouched on many a game shelf. However, the game does offer a full campaign game, and this promised to be GNB2's saving feature. Sadly, the campaign scenario looks more like Grenada than Guadalcanal. It is boring, ahistorical, and monotonous. Played in real time, with one second equaling one to four seconds of game time, it presents a bewildering array of options to the player, few of which are interesting. Victory hinges on taking Guadalcanal, but this is accomplished through the use of an abstract system, where the player delivers troops and supplies to the island while the computer handles the land forces. With control of the island being so important, more player control over the forces stationed there is needed.

My first "great naval battle" campaign ended with the Japanese losing one cruiser to airstrikes, and the Americans simply occupying Guadalcanal—not exactly the WWII version of Trafalgar. In addition, the Japanese never attempted to reinforce Guadalcanal, and provided a very weak challenge. This is not the case with the scenarios, where the computer is a better opponent, until repetition sets in.

I also encountered a problem with the reinforcements, or lack thereof. Sources at SSI revealed that depending upon the difficulty setting, some or all of the scheduled reinforcements will not arrive. This appears to be based on a random factor, coupled with the difficulty level one is playing at, and left me wondering whether Roy Gibson or Nostradamus had designed this game (when the moons of Jupiter are aligned in Aquarius, then the seas shall run red and the sky shall sing, "Shoho has arrived").

Supposedly, one playtester got through an entire game and never received any reinforcements. This never appears in the rules, and I would have assumed it to be a glitch in the program, had my trusty editor not investigated.

GREAT NAVAL BATTLES 2 reminds me of my High School prom date—all looks, no brains. What SSI needs to do is take the superior graphics and detail of GNB2, and add these to a solid game design, such as PACIFIC WAR. While pictures will spice up a game, they won't carry a poor design that has no replay and limited entertainment value.




**SAILING A STORMY SEA** Approach that enemy cruiser in the distance with care, as you can never be sure when (or if) reinforcements will show to help you out.

### GREAT NAVAL BATTLES II: GUADALCANAL 1942-43

★★1/2

**PRO:** Outstanding graphics, flexible control options, excellent damage control model

**CON:** Repetitive scenarios, poor AI in campaign mode, exasperating manual





**July's Top Picks**

| | | |
|---|---|---|
| $46 | 1942 Pacific Air War |
| 42 | AD&D Genie's Curse |
| 40 | Arena: The Elder Scrolls |
| 45 | Battlecruiser 3000 |
| 40 | Delta V |
| Call | Doom 2 • New Version! |
| 34 | Grandest Fleet |
| 43 | Harpoon 2 |
| 34 | M4 Sherman |
| 46 | Mechwarrior 2 |
| 40 | Outpost |
| 49 | Pacific Strike |
| 40 | Romance of the Three Kingdoms 3 |
| 41 | Sim City 2000 |
| 42 | SSN-21 Seawolf |
| 48 | System Shock |
| 46 | Tie Fighter |
| 48 | Ultima 8: Pagan |

**We accept preorders. Call for details.**

**July Special: Free FedEx on two or more items. This month only.**

- Complete product listing available.
- Visit our online store on GEnie. Keyword Titan-Games
- Unless noted, all games are IBM-compatible 3.5" format.
- Money orders, personal checks, credit cards accepted.

**Get that game now!**
**1-800-247-5447**

TITAN GAMES
One W. Seminary St., Brandon, VT 05733
7am-12pm Eastern Time, Monday-Saturday

VISA MasterCard FEDERAL EXPRESS

Circle Reader Service #117

# Now That's Poker Action!




*Electronic Arts' PowerPOKER Finds Itself In The Chips*

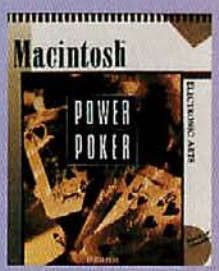
**by Alan Emrich**

POKER: THERE IS NO GREATER AMERICAN GAME. SURE, MONOPOLY HAS A LOT OF CHARM, AND BASEBALL packs 'em in the stadiums, but what feeling in gaming can compete with aces back-to-back? No game is more portable, more playable and more engrossing than a stakes game of poker. It is played throughout the world in gambling halls and basements, and has seen more homemade variations than anything this side of the kitchen.

Naturally, this great American game has also found its way onto our PCs. Like any traditional multi-player game, the trick when translating it to solitaire computer play is to simulate the action at a busy table and keep the game exciting. POWERPOKER's approach to simulating poker table *action* is what sets it above its competitors.

**PowerPOKER**

**Price:** $49.95
**Systems:** Macintosh, IBM with Windows
**Requirements:** Mac: 1MB RAM (System 6.0.7), 4MB RAM (System 7+), 5MB HD space, mouse, PowerBook compatible
**Protection:** None
**Players:** 1-10 (network)
**Designer:** Todd Ouzts
**Publisher:** Electronic Arts, San Mateo, CA (800) 245-4525




The mind behind this mastery is designer Todd Ouzts. Between 1986 and 1991, his labor of love was to write the 50,000 lines of Pascal code that have become POWERPOKER. Todd studied "a mountain of poker books and paid his share of 'tax-deductible research expenses' in Vegas, Reno and California card clubs" during the more than 6,000 hours it took to complete this game. His hard work, dedication and research have paid off. EA was quick to seize upon his home grown computer game and have released it on the Macintosh. They will soon follow up with a Windows version.

Using a display representing enough seating for 10 different players, POWERPOKER always eases the solitaire human player into the action from seat 1. While the default game when first played is standard 5-Card Stud, this product has more varieties of poker than Heinz has sauces. In fact, a quick count reveals over 100 poker variations ready to play. Sure, all the standard games that poker players know and love are included. Games like 5- and 7-Card Stud, 5-Card Draw, and Texas Hold 'Em will always set the poker standards. However, I was pleased to find such variants as Baseball, 3-Card Monte, 2-Card Stud, Omaha, and even Spit-in-the-Ocean included among the myriad of games. There were even plenty that I had never heard of. It's evident that the designer read the footnotes while studying all of those poker books.

### TOOL TIME FOR POWER PLAYERS

Since poker is America's game, it's only right that POWERPOKER allow us to engage in another great American pasttime, tinkering. Yes, POWERPOKER allows players to customize games to suit local player preferences. To my knowledge, this is a new facet in computer poker games, and one that I found to be particularly intriguing.

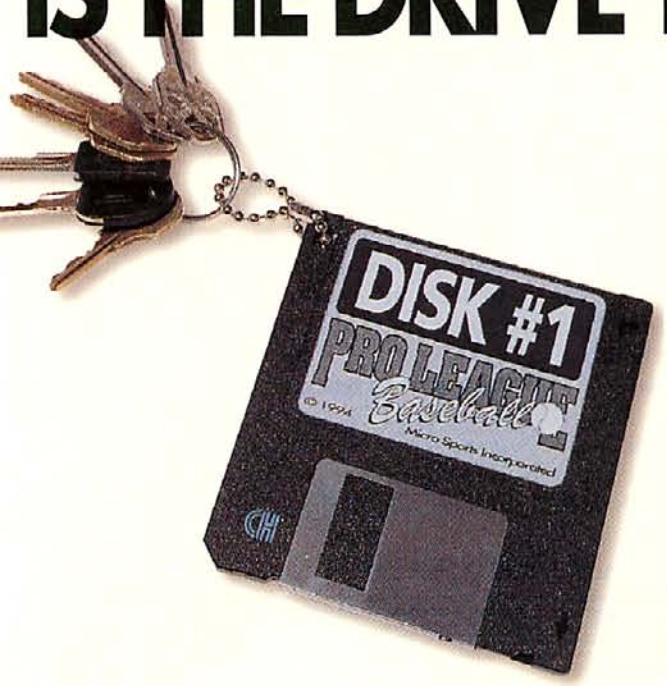
POWERPOKER allows players to quickly and easily "program" the sequencing and nuance of virtually any kind of poker variation. Perhaps you want one or two jokers to be wild, but, if dealt face up, you have to match the pot. Perhaps you want to create a "lowball" game with the low-spade-in-the-hole getting half the pot at the end. Could you do that? With POWERPOKER, the answer is an emphatic "Yes!"

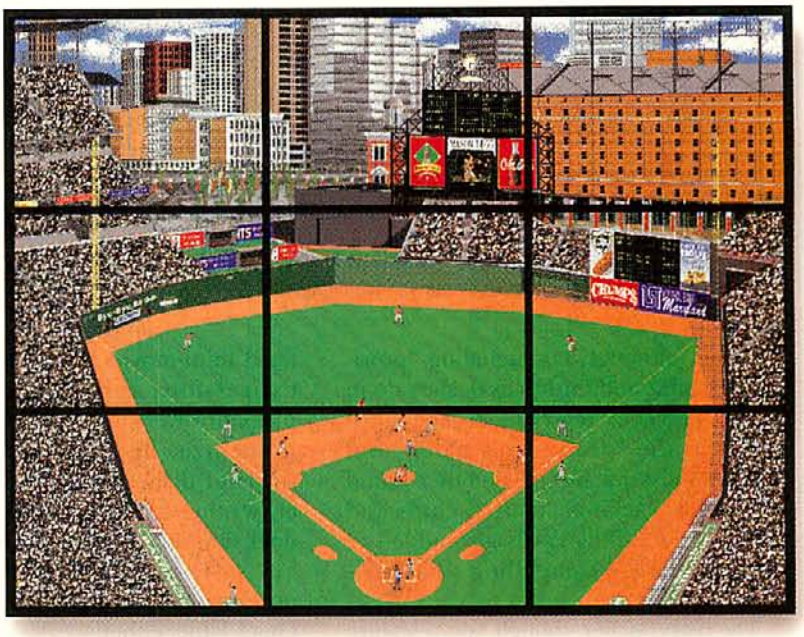
The custom game builder is not the game's only great tool. More power is also found in defining each game's various "house rules" (antes, table stakes, check-and-raise, raise limits, betting limits, etc.). Each of these variables defines the nature of the table and one's interest in the game. For example, will the game be dealer's choice, favorites only, or a single game such as 7-Card Stud Casino Style? Are jokers wild, or just "bugs" for aces, straights and flushes? How many players will you seat at the table? Will they enter and leave the game randomly like they do at the clubs? This game is so flexible with its player-definable variations that the only game I couldn't program was our local version of 7-Card "No Peeky," but then it would probably take a team of NASA scientists to program that game the way *we* play it.

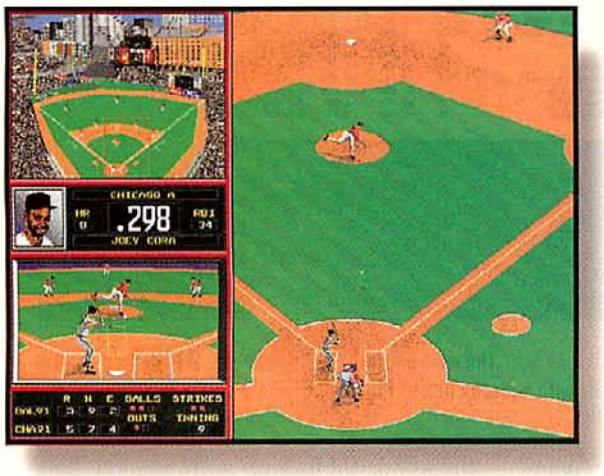
### I HEAR THAT

The feature that I enjoyed the most in POWERPOKER, however, was the dealer patter. Although it sounded somewhat "computerized" on the Macintosh version, the dialogue and slang were exactly right. The program's use of synonyms kept the banter from getting too repetitive, and a male or female dealer's voice could be selected. It called 'em all perfectly, keeping players alert to who had

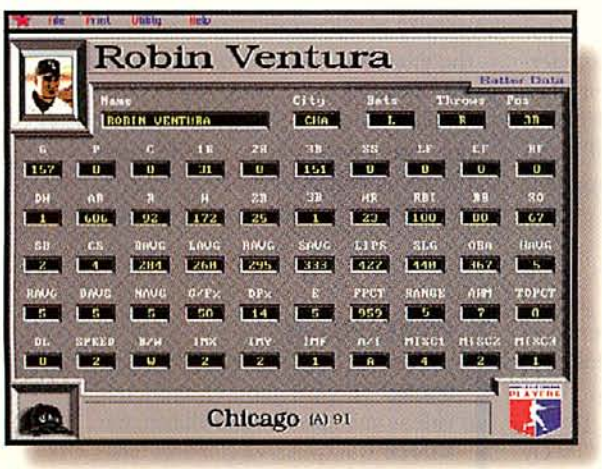
# THE ONLY THING MISSING IS THE DRIVE TO THE STADIUM.

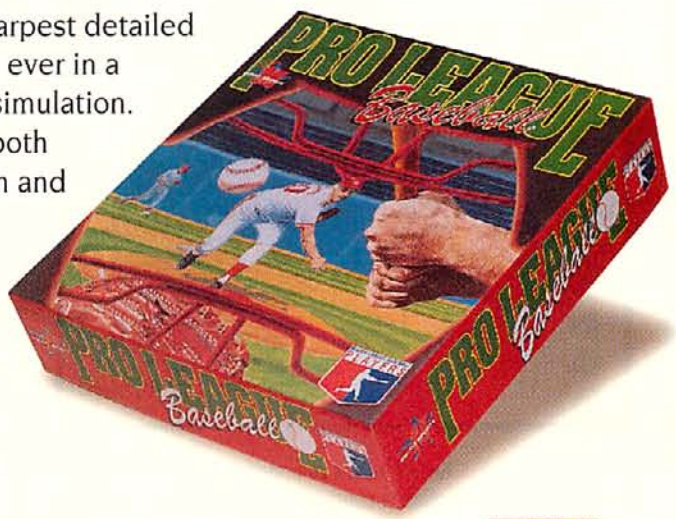




- The most highly detailed ballparks ever to be created. Each park consists of 9 full screens.
- Season Replay, Strategy Sheet, Head to Head vs. Human & Computer, and True Modem Play with Chat Mode.
- Contains full rosters for all 1993 teams with over 40 categories of batting stats and over 30 categories of pitching stats per player.
- Draft module with "Computer Draft" Option, Trade module, Team editor module and League Set Up module including the NEW 1994 Division Alignment.
- The sharpest detailed animation ever in a baseball simulation. Includes both Simulation and Arcade modes.



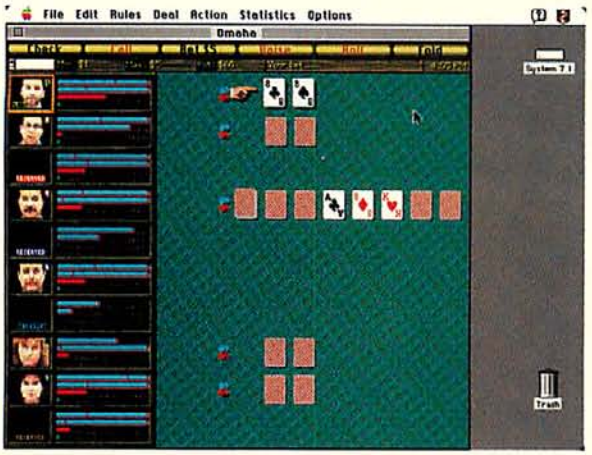

Screens may vary.

MICRO SPORTS INCORPORATED

Micro Sports Inc. • One Northgate Park • Suite 103 • Chattanooga, TN 37415

**1-800-937-7737** *Circle Reader Service #89*

MAJOR LEAGUE BASEBALL PLAYERS




**ANTE UP** Strategy gamers and poker enthusiasts alike will enjoy the eclectic styles of play shown by the various opponents.

the lead (although not signaling "possible" straights and flushes as dealers do in Vegas, nor ever referring to aces-and-eights as the "dead man's hand," but these are just quibbles). The other sound effects, of clacking, rustling chips and snapping, shuffling cards also added to POWERPOKER's compelling play environment.

The real clincher, though, was a feature that poker enthusiasts have long desired: network play! Although I've played poker several times with others via computer on The ImagiNation Network, this is not a feature that I recall seeing in any boxed computer poker game. While there is no modem option supported, the fact that an entire office could be goofing off (er, "working") concurrently over a network gives it an added star in my book. The fun is not only in passing the deal, but sending the messages back and forth that equate with good old poker patter. (Riddle: How can you tell when poker players are lying? Answer: Their lips are moving.)

### STIFF COMPETITION?

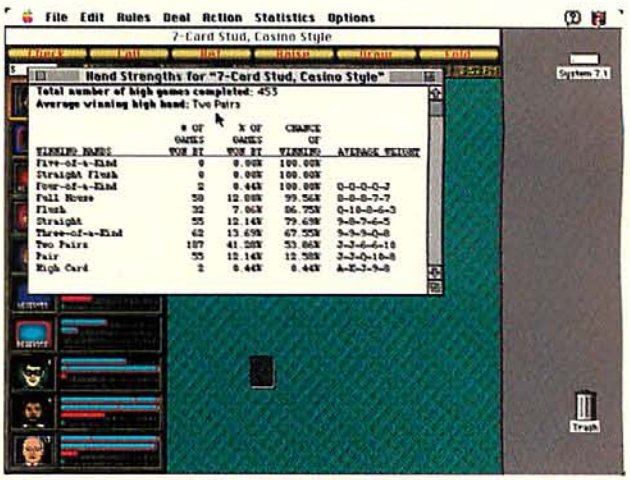
Having two distinct sets of computer player opponents to play against was another nice touch. The first set is the standard artist's rendition of character faces, complete with occasionally changing expressions as their fortunes change. The optional set of players featured the digitized "Not Ready for QuickTime Players." This average bunch of nice-but-slightly-nutty neighbors appear as digitized mini-movies. Their real-life facial expressions and mannerisms are a pleasant diversion, and they really help humanize the game and suspend disbelief. However, waiting for them to yak does slow down the action a bit, so impatient players might not be ready for QuickTime, either.

These computer players, while not slouches, are not of the more professional caliber found in **Villa Crespo**'s AMARILLO SLIM'S DEALER'S CHOICE. This might well be because the artificial intelligence in POWERPOKER has to be pretty flexible to deal with the many variations of play. Players are advised to let the computer players play amongst themselves for 20 or so hands before you join the table. This builds up an internal database of winning hands and percentages for the computer players to reference when making their playing decisions for a particular game variation. Until a decent database is built up, their play style is noticeably erratic. However, even after a number of games have been logged, the computer players do not evolve into predatory poker card sharks. While not completely reckless, their play style remains loose, which keeps the action lively with every hand. Tight players will be able to make their money over time while loose players will find themselves swimming in action. Either type of player will find their reward when playing POWERPOKER.

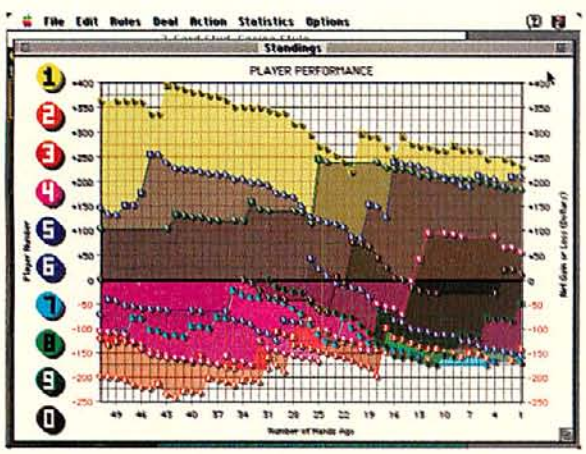
From the standpoint of statistical analysis, AMARILLO SLIM is also superior, although POWERPOKER keeps track of overall winnings and computer players' play based on past-hand analysis. What POWERPOKER doesn't do is buckle its players down and really teach them how to master the game of poker and win consistently against all comers. Players seeking to graduate to this level of advanced poker playing will definitely have to seek out AMARILLO SLIM to get the lessons and analysis they desire.

### THE POT'S RIGHT

POWERPOKER is absolutely the right game for all but the hardest of hard-core computer poker players, and even those players will probably want to relax with the wonderful features and variations that POWERPOKER has to offer. The charming sounds and animation add considerably to the game's power and diversity. Throw in the network play, and you've got office gambling like there's no tomorrow (or, in our case, no deadline). For the casual and the social computer poker player, POWERPOKER has become the one to beat.




**FOLD OR CALL?** The well-informed bettor can see the range of typical hands with a mere click of the mouse.




**MONEY IN THE BANK** Keep track of your monetary wins and losses with the player performance chart. A shame you can't take this to Vegas!

### POWERPOKER

★★★★

**PROS** Flexible game creation tools, videos and speech raise charm ante

**CONS** Computer opponents lack savvy, more entertainment than instruction

# My son and I love this game!!!
# Great work!!

Robert Strauss, Burbank



*My daughter (11 years old) and I have become "Oxyd" addicts. We cannot wait to begin exploring the many other levels. Thanks for creating such an excellent product. R. S., Germantown*

*This is, without question, the most impressive game I have ever seen. I am amazed at the audio, visual and action. George L. Tanty*

*Wow! That's all I can say about Oxyd. What an incredible game!*
*One of the nicest games I have seen in a long time.*
*Thanks for creating such a challenging piece of software.*
*I'm completely hooked! The game is really slick, well designed.*
*Those first 10 levels alone were worth paying for!*
*It is rare to find such a visually appealing, addictive and playable game.*

*One of the most elegant games I've played. Jeffrey Jondahl, San Diego*

*I enjoy this game a great deal and so do my children and their friends. It is just what I have been looking for !! Jerome Wescott, Minneapolis*

*Oxyd has to be the most artistically superb piece of programming that I have seen. From my position of having completed about one third of the single-player levels, the landscapes have been continuously varied with a marvelous attention to graphic and audible detail that makes each new one a continuing delight. I especially appreciate how the marble interacts in seemingly realistic but different ways when rolling over or bouncing against different "natural" (or unnatural) substances like stone, wood, swamp, freefall etc. At this point, I'm already worrying that I'll run out of levels. Jeffrey R. Harrow*

*Even our 3yr old enjoys the game.*

*I just had to write to tell you how much fun I've had playing Oxyd. The attention to detail - the sounds, the textures of the surfaces - really adds to the fun of the game. It invites the imagination for a ride.*
*Thanks also for making all of the landscapes challenging but not impossible. Tom Phoenix, Portland*

*I'm really impressed with your game, Oxyd. Congratulations on a unique and fun product, and best luck to you all. John M. Dodd*

*Oxyd Credits:*

**Game of the Year 1993**
*Australian MacWorld*

**Best Brain Game 1993**
*MacWorld Game Hall of Fame*

**Game of the Year 1992**
*Computer & Pädogogik 06/93*

**Game of the Year 1992**
*Display Computer Club e.V., Germany*

**The variety of play is literally, incredible. Score this game a solid 10**
*Current Notes 06/93*

**"A" rating - Wow! Exquisite. A must for your games library.**
*AmigaWorld 06/93*

**Game of the Month.**
*MacWelt 02/93*

**Top of the Charts**
*Brain Teaser Category, PC Games German edition.*

**Treat of the Month**
*Atari Roundtable in GEnie, 12/92*

**Editor's Choice**
*PC Games German edition, 12/92*

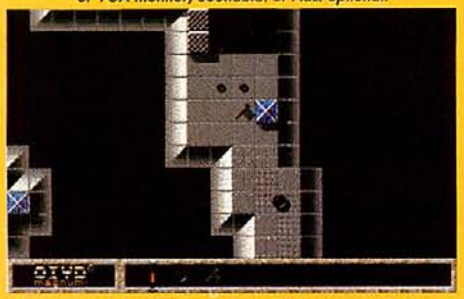
**Download free appetizers from SWC BBS at (508) 368-7036 @ 2400-14.4k baud or send a check to Dongleware:**

- ❑ 10 levels of the Oxyd game $ 4.00 PC, Mac, Amiga, ST or NeXT.
- ❑ The Oxyd Code Book $ 39.00
- ❑ Take 5 demo of magnum! $ 4.00 for PC or Macintosh.
- ❑ Tubular Worlds episode one $ 4.00 for PC or Macintosh.
- ❑ Shipping & Handling $ 3.00




## Oxyd® magnum!
### for PC, Mac & Amiga

*Sequel of the award winning Oxyd game!*
*Mac: 1MB RAM, color or monochrome!*
*PC: 386 or above, 2.5 MB RAM, EGA or VGA monitor, Soundblo. or AdL. optional.*



***Some fine comments about Oxyd magnum!***
*I like Oxyd magnum because it's different in every landscape, surprising, challenging, compelling and fun! Every landscape is like a new game. It's so tricky! It drives my wife crazy. More levels and just as good as Oxyd. You have challenged me! Thanks. My wife and I like to play puzzles together. It's unique. Great puzzles. It's aesthetically pleasing and exercises the mind. It makes me and my kids think and we don't have to punch or kill anything.*

## NOW PLAYING:




*Dongleware Publishing, ◆ 35 Howard Street*
*Cambridge, MA 02139 ◆ (617) 497-1130*

**If your dealer does not carry Oxyd and Oxyd magnum! call us at 1-800-228-6993**
**Checks, Visa & MasterCard accepted ◆ MA residents add 5% sales tax**

Circle Reader Service #63

# Tread Upon The Shining Path

*Achieving Mastery Of Romance Of The 3 Kingdoms III*




**by Josh Bruce**

IT'S TIME TO SHARPEN THAT POLEAX AND PRACTICE YOUR HUMAN WAVE TACTICS; WOULD-BE EMPERORS, PETTY WARLORDS, rebellious peasants, and usurping eunuchs stand in the shining path to the throne of **Koei**'s ROMANCE OF THE THREE KINGDOMS 3.

The lands of second-century AD China offer a bewildering array of choices and challenges as you attempt to reunite the Empire after the collapse of the Han Dynasty. Victory may seem elusive as you battle strange men in stranger cities, but your chances to win are enhanced by following some simple guidelines. The first thing you need to do is get your bearings. Unless you are very learned in ancient Chinese history and geography, you'll be stopping at every hut from here to Xiliang asking for directions.

## ON THE ROAD TO LUOYANG

The geography of ancient China is extremely diverse, and needs to be considered before beginning a campaign. The West offers broad expanses of open territory, but these are poor provinces with little agricultural or economic value. Along the coast, provinces are worth far more, but are held by strong warlords. In the middle of the map lies the capital city of Luoyang. This province is extremely wealthy and should be the player's first objective after recruiting and training a respectable army. Remember that when plotting your strategy there is a sizable difference between cities, larger ones having far more value but many more defenses.

At the outset of the game, you may choose which of the many Chinese warlords you will portray. Choose wisely, as this decision can mean that the rest of the game may not be winnable. Dong Zhou has a large army, but will have a very difficult time finding allies. Liu Yan has few nearby enemies, but inhabits a very poor region of the map. Gongsun Zan is virtually worthless, and will present a boring game as the player waits until another warlord decides to blitzkrieg him. When choosing which character to be, remember Josh's 1st Rule of Computer Games: "Whenever possible, be the guy on the cover of the box!" Cao Cao is a strong character, with good leaders, a rich province, and the inside track on winning the game.

In order to fully master RTK3, four separate spheres must be dealt with: politics, infrastructure, strategy and tactics. Upon picking a warlord to play, you need to form alliances with all neighboring provinces and any large factions, regardless of where they are on the map. Once this is done, you should work on lowering the hostility level of any province that borders your own until it reaches zero. The best way to do this is by simply sending envoys to the province to ask for token help (i.e. one food or gold unit). The other province will almost certainly give you this small amount, and its hostility level will decrease by five. By doing this, you will gain time to build up your military forces.

Don't be shy about asking other provinces for help, particularly when you begin running low on food or gold. It is a simple procedure to use, and it can quickly solve your financial worries. An excellent financial ploy is the "Iran-Contra Gambit." If you desperately need soldiers, but have no food or gold with which to raise troops, then send your best diplomat to a wealthy ally and have them ask for a large amount of food. Then, send another officer to sell half of this supply at the market for gold, and suddenly you are ready to recruit more soldiers. This ploy can be repeated as many times as you have officers. While mastering the political aspects of RTK3 is critical to winning, learning to manage your empire is critical to survival.




**JOSH'S 1ST RULE OF COMPUTER GAMES** Whenever possible, be the guy on the cover of the box.

## SUN-TZU SCHOOL OF ART

Two facets of empire management warrant special attention: officers and the military. The number of officers a ruler has in his retinue determines how many actions he may




# THE PLANET'S HOTTEST HARDWARE MEETS THE PLANET'S COOLEST SOFTWARE. INTRODUCING GAME BLASTER CD 16.

All the leaders of the gaming universe have joined forces. And now they're coming to get you. No other game experience can prepare you for what's waiting inside the new Game Blaster CD™ 16 multimedia upgrade kit.* You get a Sound Blaster™ 16-bit sound card and speakers that make all your games sound terrifyingly real. A double-speed CD-ROM, so all your games run faster. An FX-2000 joystick, so you can hone your reflexes. Not to mention the most outrageous games in the cosmos—Rebel Assault and Sim City 2000—and for the next six months, no other kits have them. But that's not all. Game Blaster also includes Return to Zork, Iron Helix, F-117A Stealth Fighter, Silent Service II, Civilization, Railroad Tycoon, and Grolier's Multimedia Encyclopedia. Of course, all your games will sound better because they're made to be played on Sound Blaster. The question is, can you handle it? Want more info or the name of a Creative Labs dealer? Call 1-800-998-5227.




CREATIVE™
CREATIVE LABS, INC.

*Suggested Retail Price $549.95 ©1994 Creative Technology Ltd. Game Blaster CD, Sound Blaster, and the Sound Blaster and Creative logos are trademarks of Creative Technology Ltd. All other trademarks are the property of their respective owners. U.S. inquiries: Creative Labs 1-800-998-5227 or 408-428-6600. International inquiries: Creative Technology Ltd., Singapore, TEL 65-773-0233 FAX 65-773-0353.

*Circle Reader Service #131*

initiate. It is therefore important to have several officers with your ruler, but since each must be paid a yearly salary, you should not do this to excess. The key is to maximize efficiency through the special abilities of each officer. Have several officers that handle diplomatic affairs, some for recruiting troops, and some for commanding men in battle. Reward your officers whenever their loyalty begins to sag. Having an officer turn traitor in the middle of a battle can ruin your whole day.

Military leaders assigned to army command should spend all of their time training and rallying their forces. Begin by putting as many soldiers as they can command under their control. Then, train them until their training level is 100. Next, rally the troops until they reach their maximum morale. Treat training levels and morale very seriously, as they are the most important factors in combat. Now that you've learned how to conduct politics and run your empire, you may begin formulating your strategy.

### ALLIANCE OF REGRESS

The broad strategic considerations of RTK3 focus on making friends and conquering enemies. Begin by forming alliances with all neighboring domains until a large military force has been built. Once this is done, decide which domain you wish to conquer and begin threatening them until their hostility level reaches 100. Then, revoke the alliance so that your soldiers' morale and officer loyalty will not decrease when you invade the area. If you have any allies who border the area in question, arrange for a joint invasion of the city. Depending on the strength of your enemy, you should either push on until they are completely conquered, or sign an alliance with them after taking two or three provinces. Further, be sure to sign alliances with any neutral warlords who border areas you plan to invade.

The question of where to invade is an issue that deserves special attention. The ultimate goal of the game is conquering all of China. Two preliminary goals should supersede this: forming a front line, and conquering Luoyang. Your empire should have its back guarded by the ocean or a map edge so you can expand your power away from this zone without being caught in a two front war. Once you have established your faction within a safe area, it is time to push on towards Luoyang.

Luoyang, the former capital city of the Han Dynasty and richest province in the game, must be taken at all costs. Though usually heavily defended, it is far from impregnable and can be secured with a strong army. Begin by advancing towards Luoyang one area at a time, slowly but surely, staying focused on your objective and crushing any warlords in your way. The numerous battlefields compromising the Great Wall, which surround Luoyang, can prove to be very tough defensive works. If at all possible, attack Luoyang from either Wan or Hongnong, as this will outflank the Great Wall. Once Luoyang has been taken, you will be in a strong central position, and can proceed to conquer the rest of China at your leisure. Proper strategy will place your men in the right place at the right time, but winning battles hinges on mastering tactics.




**AMBUSH** A crossbow disadvantage is much less of a problem if you surprise your foe in heavy woods.




**ATTACKING ON TWO FRONTS** Slipping troops over the wall tends to split the defender's forces, and is a great way to open his gate.

Tactical considerations include use of weaponry and terrain. There are a variety of weapons available, but some seem a bit expensive for their battlefield worth. Horses are very useful, as they increase mobility, but they cannot scale walls. Crossbows and super-crossbows allow a player to use ranged attacks against an enemy, but do not do a great deal of damage. While players will find some use in these special weapons, they are not enough of a factor in a battle to decide the issue by themselves. Of far greater importance is what type of terrain is being fought over.

Upon attacking a city, the first thing that must be done is to look at the intelligence window on the right hand side of the screen. If your enemy outnumbers you, but has little available food, a siege is in order. Place all of your forces on standby and wait while the enemy's food supplies dwindle to nothing, at which point they will withdraw. This is a bloodless way to victory, but can be a time-consuming process as you sit and wait for the enemy to starve.

### A STORM IS BREWING

The other option, of course, is to take the city by force. The key to storming a city lies in getting your army into the city as quickly as possible, and then assaulting the castles. Select an officer whose forces are trained and rallied to their maximum. Move this group to the head of your assaulting forces, then use them to scale the walls near a gate. On the next turn, send them circling back to open the gate from the inside. This is a much better way to gain access to a city, unless you get a thrill from battering down doors.

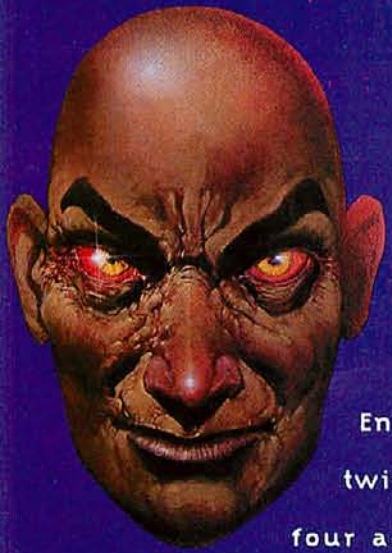
Once your army is inside the city, focus your attacks on taking the castles. Move all of your forces towards them until they are encircled with every available unit. Use the attack and simultaneous attack commands to storm the castle, then move on to the next objective. Remember to garrison the castle you have taken, or enemy forces will reoccupy it and you'll have to clear it out again.

When defending a city, don't be afraid to sortie out and fight in the open if the attacker only has a small force; otherwise, use the terrain to your advantage. Put as many units in the castles as you can, and

# GETTING TOTALLY INTO IT IS EASY.



# GETTING TOTALLY OUT OF IT ISN'T.









Enter the deep, dark realm of Hexx — a world of twisted paths and one very twisted mind. Guide four adventurers through a labyrinth of texture-mapped dungeons in an attempt to free the Gods of Magic from the grasp of an evil wizard. Where every move is from a first-person perspective. Where every step is action-packed, every graphic out of this world. "One of the best first player perspective RPG's I've ever played," says PC Action. Now at your local retailer. For a very small sacrifice.

hexx™

HERESY OF THE WIZARD

PSYGNOSIS

Look for Hexx, Hersey of the Wizard at your favorite software retailer or call 1-800-438-7794 (GET PSYG) to order your copy today.
Psygnosis, Ltd., 675 Massachusetts Ave., Cambridge, MA 02139 Phone: 617-497-7794 Fax: 617-497-6759




**A RUDE AWAKENING** Yu Jin gets off to a bad start, after stumbling into a trap in the rain-drenched fields of Ye.

just hope that the attacker runs out of food, or reinforcements arrive before you are destroyed. If severely outnumbered, don't be afraid to withdraw. You are going to lose the city anyway, so at least you can save the army to fight another day.

With the exception of the wide diversity of terrain, fighting in a non-urban setting is not significantly different from fighting in a city. One type of terrain that does deserve special mention is the Great Wall. This ominous defensive work, which roughly encircles Luoyang, is a great boon to the defender. Station as many troops as possible on top of the wall and wait as the attacker senselessly tries to scale it. When attacking, try as much as possible to corner defending units away from this defensive work and destroy them before they can get up on it. If you are attacking a Great Wall area and find yourself outnumbered or evenly matched, withdraw immediately and save yourself the time and casualties. Remember, it is better to lose quickly than to sacrifice your army proving that it can not be taken.

As a final note, after extensive playing of this game I have had only one naval battle. Most fighting occurs on land and naval warfare is a relatively rare occurrence. Since ships are pretty expensive and not often used, my advice is to avoid building them, at least for your first few games. Concentrating on land combat using the strategies outlined above, players will find that they spend more time conquering China and less time trying to figure out what is going on. While you will still find the game challenging, the reunification of China will be a much less daunting task.




**GREAT BALLS O' FIRE** A pyromaniac's delight, fireballs will demoralize your enemies—until the rains come.


# "The Great ORIGAMO sweepstakes"

## What got you hooked on Origamo? Let us know in 20 words or less and you could win one of the following prizes:

**First place- 3 QQP products AND $50.00**
**Second place- 2 QQP products AND $35.00**
**Third place- 2 QQP products AND $25.00**
**Fourth place- 1 QQP products AND $15.00**
**Fifth place- 1 QQP product AND $5.00**

All entries must be post marked by July 1, 1994. All entries become property of QQP, inc. and are non-returnable. One entry per envelope. Drawing will be held July 15, 1994 and is final. All winners will be notified by mail postmarked by August 1,1994. No purchase necessary. Sweepstakes is not availlable where prohibited by law. Send all entries with your name and address to:

QQP inc., Department A
495 Hwy. 202, Flemington NJ 08822

*Circle Reader Service #180*

FormGen
INCORPORATED

# Disciples of Steel

The disappearance of your father has left Lanthor without a leader. Factional infighting in the resulting power vacuum has left the realm in chaos!

In your heart, you've always known that you were the chosen one — now it's time to act! You've got to save your once-rich land by re-establishing the supremacy of the guilds.

Choose your disciples and your strategies, build vast armies to conquer or defend, heed the counsel of the lords or assassinate them — everything is under your control!

Disciples of Steel is the ultimate role playing game, with stunning graphics and hundreds of challenging quests. Heart pounding sound effects and original soundtrack make Disciples incredibly realistic. It'll amaze you with its fine attention to detail, powerful weapons, and huge array of magic spells!




Hone your skills and build your strengths — danger lurks around every turn!




Fight or flight! Choose wisely, as things are rarely what they seem!

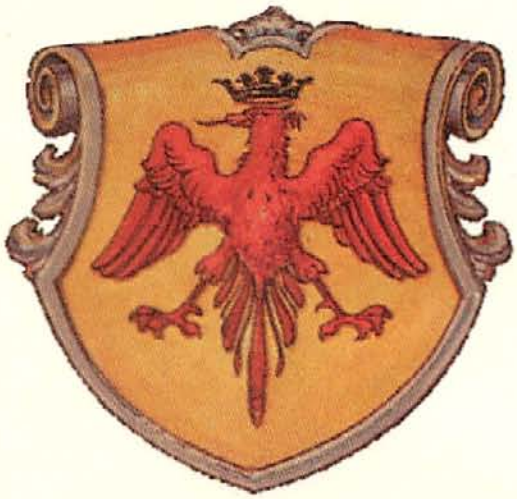


Time for talk is past! Only the mighty and the cunning will survive!

**Game by Megasoft Entertainment. Published by FormGen Inc. (800) 263-2390**

*Circle Reader Service #65*

# Machiavellian Machinations



*How To Lose Friends and Dominate People In Merchant Prince*

**by Tim Carter**

ANY GAME BASED ON MACHIAVELLIAN PRECEPTS IS BOUND TO OFFER AMPLE OPPORTUNITIES FOR RUTHLESS people to air out their strategic ambitions. Of course, while you're courting allies (and plotting to ambush them), your human opponents are devising equally sneaky maneuvers via modem or e-mail. So MERCHANT PRINCE from **QQP** hinges on cunning diplomacy, and a knack for 14th Century skullduggery doesn't hurt, either.

To win at MERCHANT PRINCE, you have to build a fortune through trade and politics. So, the game can be divided between trading and political actions, the latter including religious and military activities.

### IT'S NOT EASY BEING GREEDY

As you warm up to your tights, concentrate on exploring and developing trade routes. Before dabbling in religion, politics or military adventures, you'd better have a functioning trade system in place, and a lot of extra cash on hand or on the way. Dabbling in the world of politics and religion early on will only waste money and time while your opponents build a war chest for a sustained political push later. Remember, most games last 100 years or more. You'll have plenty of time in the last few decades of the game for political domination and manipulation, so be patient. Don't be tempted into politics even if the opposition is already active there. Once a major cash reserve is available, any lost ground can easily be made up.

What aspiring Marco Polos need to do early on is explore as much of the world as possible, identifying cheap sources of goods and markets for the highest prices. But don't go in search of the New World, because you'll need to get cash flowing as quickly as possible.

Once your trading empire is up and humming, it is useful to distinguish between two types of trade routes: milk runs and cash runs. A milk run is usually a moderately profitable line between two cities relatively close together. A good example is glass from Venice in return for gold from Budapest, one of the best starting trade routes on the historical map.




**LURE OF THE ORIENT** Cash runs to faraway cities are riskier, but trading wine for silk can be more than a little lucrative.

Milk runs should always be programmed into the computer and then left alone. Their purpose is to generate operating capital and underwrite cash runs. Cash runs generally involve multiple transports and longer distances in order to see higher profits. As your trading network and wealth begin to grow, some cash runs will become milk runs, and larger cash runs can be created. You should never worry about a financial base, as long as the milk is flowing.

The major difference between a milk run and a cash run is the way their profits are used. Milk runs ought to be used to gradually expand trade routes and maintain cash flow. They should not be used, at least early on in the game, to fund political activities. Cash runs represent the cream of the crop, producing the biggest payoffs, and they can supply the capital necessary to mount a political campaign. Furthermore, funding political campaigns outside of the day-to-day cash flow keeps you from overspending and thereby hurting your overall trade effort.

In general, there are a few other trade practices that can greatly aid profits. Don't concentrate on shipping at the expense of land transports. Some land routes can net bigger profits than sea routes. Roads can make land transportation almost as fast as shipping, faster in some cases because roads can often be built straight between two cities.

Mules or camels can be used as warehouses in any major hub city. This is particularly useful for high value goods or for bare-cupboard tactics (see below.) For instance, on the historical map a profitable route is usually from Timbuktu to Tang-

# OPERATION CRUSADER™

## The Total Combat Experience

WORLD at WAR™



Middle level zoom map of North Africa.


Tactical map featuring combat units near Tobruk


Real-time battle reports from the front.


Time Reference Calendar gives weather forecasts and reinforcement alerts.

Hot on the heels of the industry's first "Game of the Year" for a computer wargame, the team that brought you the award-winning ***V for Victory*** series has joined forces with The Avalon Hill Game Company for yet another blockbuster! Atomic Games and Avalon Hill are proud and excited to present ***OPERATION CRUSADER***, the first in the new ***World at War*** series covering great campaigns of WWII. Set in the expansive reaches of the Libyan and Egyptian deserts, ***OPERATION CRUSADER*** sweeps you into the role of German Field Marshal Erwin Rommel or British General Sir Claude Auchinleck as they commit their nations' finest infantry and tanks in an all-out struggle for the Mediterranean port city of Tobruk. A series of six historical scenarios will show you first hand what open field tactics and desert combat are REALLY like. Experience for yourself the cursed Hellfire Pass and in the end see if you, too, can earn the title, "The Desert Fox".

*Available at Leading Resellers, including:* • Babbages • Comp USA • Computer City • Electronics Boutique • Egghead • Radio Shack • Software Etc. • Walden's Software.

## The Avalon Hill Game Company

DIVISION OF MONARCH AVALON, INC.

4517 Harford Road, Baltimore, MD 21214

If Operation Crusader cannot be found locally, call TOLL FREE 1-800-999-3222
Ask for Operator CGW5

Available on: IBM PC compatibles. Required: Processor 386 or better. Min. 4MB memory. HD.3.5" Floppy, Hard Drive, SVGA–VESA graphic card & monitor, support AdLib, Roland & SoundBlaster cards.

AND

Available on: Macintosh Color Systems. 4 MB RAM. HD req'd.

Circle Reader Service #44




**LANDSHIPS** Camels and donkeys lack the speed of galleys, but function as mobile warehouses in hub cities.

iers or Tunis. You can make more money, however, by keeping a unit in the destination city for storage. When high-value items are sold in the city, buy them with a storage unit and vector a ship for pickup and resale in that city. This is faster, more profitable and more direct than sending a ship from Timbuktu to a city such as Venice, and is much more flexible.

Galleys do not require guards and they are capable of outrunning most pirates. On average, unguarded galleys will suffer a lower attrition rate than guarded cogs. Galleys are usually the best buy early in the game, except for short runs. They are a bit cheaper, and they generate cash much faster due to their speed. They are also much more effective for exploration, given their ability to sail up smaller rivers.

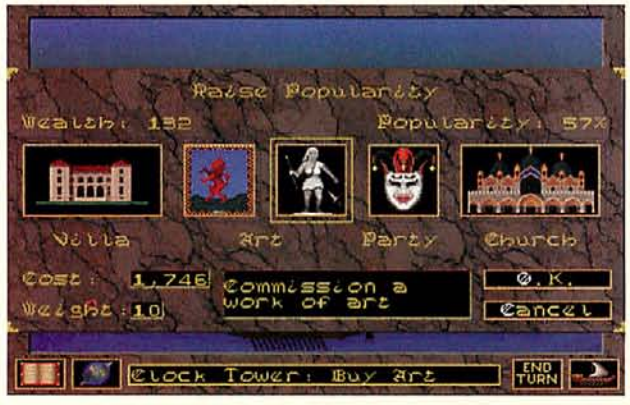
### SILK-COLLAR CRIME

There are a number of dirty tricks in trading that can be highly useful for building an empire and confounding your opponents. A word of caution about dirty tricks in general: they tend to be cyclical in nature and can often result in your own demise. No one is safe from retaliation, which should be foremost on your mind before pretending to be Caesar Borgia and scheming against your rivals.

Having said that, here are some ways to go about doing it, and possibly getting away with it. The easiest way to mangle other trading networks is through piracy. Hire a mercenary force and station it along a crucial trade route looking for easy prey. It is often possible to anticipate where and when a large number of enemy ships will appear, and it is easier and safer to pilfer them the farther you are from Venice. It is actually possible to capture enemy ships and cargo, leading to a direct profit, although profits rarely cover the expense of hiring mercenaries. This tactic can be very rewarding, however, if an opponent has constructed a treasure fleet loaded with high value goods.

A more subtle way to monkeywrench enemy trading is by keeping their cupboard bare. When playing against human opponents, it is possible to buy all the goods in a city before their turn. Usually, this approach is effective only when a limited number of goods are available. Additionally, the game system provides limited quantities of goods for purchase by your competitors even if you buy everything during your turn.

The periodic plagues that sweep Europe can seriously hamper trading efforts, but can also be turned to your advantage. Because the effects of the plague are applied after you have entered the stricken city to buy or sell goods, it is wise to sell in plague cities but not purchase there. Then, if your trading units are wiped out, you will have benefited from the inflated prices, without losing valuable cargo to the disease.




**SOCIAL GADFLY** If you can't find ways to increase your popularity in Renaissance Italy, you're playing the wrong game.

### BUYING THE GRACE OF GOD

Once a trading empire is established and a large amount of surplus cash becomes available, players should begin to invest in the Church. Cardinals are a good investment, as they provide cash every turn in the form of indulgences. The end goal of this religious campaign is obviously ascension to the papacy.

While it is possible to become Pope by buying a majority of the cardinalships, the necessary votes can generally be rounded up through negotiation. Becoming Pope is not as important as what you do once on the papal throne. A clever Pope can control the papacy by regulating the number of cardinals on the market. Since the Pope gets 50% of the market price for each cardinal, if you sell to yourself, cardinals are half-price.




**DOLLARS AND SENSE** Mercenaries and Pirates are a quick way to strike at your enemy's heart, but are about as subtle as assassination attempts.

As Pope, you may excommunicate cities or call crusades. The crusades are not really effective until the popularity of the papal faction is high enough to draw a significant military force. Excommunication can be put to more immediate use. Excommunicated cities pay a much higher price for imported goods, vastly increasing the profits of traders who sell there. You might even use your papal powers to excommunicate a trading destination immediately before a shipment arrives, thereby raising profits.

### FROM POPE TO POLITICO

Once the papacy has been decided, and a large war chest accumulated, it is time to enter the realm of politics. If possible, it is a good idea to begin a political career by targeting the neutral faction. The main reason for this is that the neutrals don't hold grudges to the same extent that other players do, and their potential for retaliation is much smaller.

The important thing to remember

Cao Cao

Genghis Khan

# It took 1400 years, but we finally got them together!

Picture this, two of history's most ruthless and ambitious leaders in the same room. Now, throw in the fact that both are looking towards world domination with massive armies following their every command. Sounds interesting, doesn't it. This winter, Koei's bringing Genghis Khan and Cao Cao together to a store near you, and it's going to be exciting. After all, Genghis Khan is out to lead his Mongol hordes victoriously across Asia and Europe in GENGHIS KHAN II: CLAN OF THE GRAY WOLF and Cao Cao's devising new ways to reunite China after the collapse of the Second Han Dynasty in ROMANCE OF THE THREE KINGDOMS III: DRAGON OF DESTINY. The contest for world domination is about to begin. Are you ready?

Genghis KHAN II
CLAN OF THE GRAY WOLF



CONQUER THE WORLD!



SEIZE THE BATTLE ADVANTAGE.

Romance III of The Three Kingdoms
DRAGON OF DESTINY



SEAL AN ALLIANCE.



PREPARE FOR DISEASE & DISASTER!

- VGA color
- Mouse support
- Sound Blaster & AdLib™ sound support

KOEI

KOEI Corporation, 1350 Bayshore Highway, Suite 540
Burlingame, CA 94010

ALSO AVAILABLE FOR SNES & SEGA.

KOEI Games are available for all systems in retail outlets nationwide! If you can't find the KOEI product you are looking for, call us at (415)348-0500 (9am to 5pm PST).

PC Compatible

Genghis Khan II and Romance of the Three Kingdoms III are trademarks of KOEI Corporation.

about politics is that it is essentially a zero-sum game; in order for you to win, someone else has to lose. As such, a successful political career is not generally conducive to a lot of lasting friendships.

Thus, it is usually a good idea to have one's political alliances established before beginning a sustained drive for power against human opponents. The computer appears unresponsive to bribing, and it is sufficiently weak that a political campaign can be conducted even when all three computer opponents are hostile.

Once Doge, always appoint your faction as Council Head. The Council Head effectively controls the senate through his ability to remove senators at will, which offers the power to keep other factions in line. The military posts should be ignored, as you ought to have enough money to hire your own army long before you become Doge anyway.

### MORE DIRTY TRICKS

The dirty tricks available in the political realm are a lot more overt than in the economic sphere. Assassination, rumor-mongering, and arson are readily available and surprisingly affordable. The only real question here is whom to attack and how far to go. Against human opponents, it is necessary to carefully judge the likely fallout of a dirty trick. Remember, you are as vulnerable as your opponents, and an all-out war is likely to benefit no one.

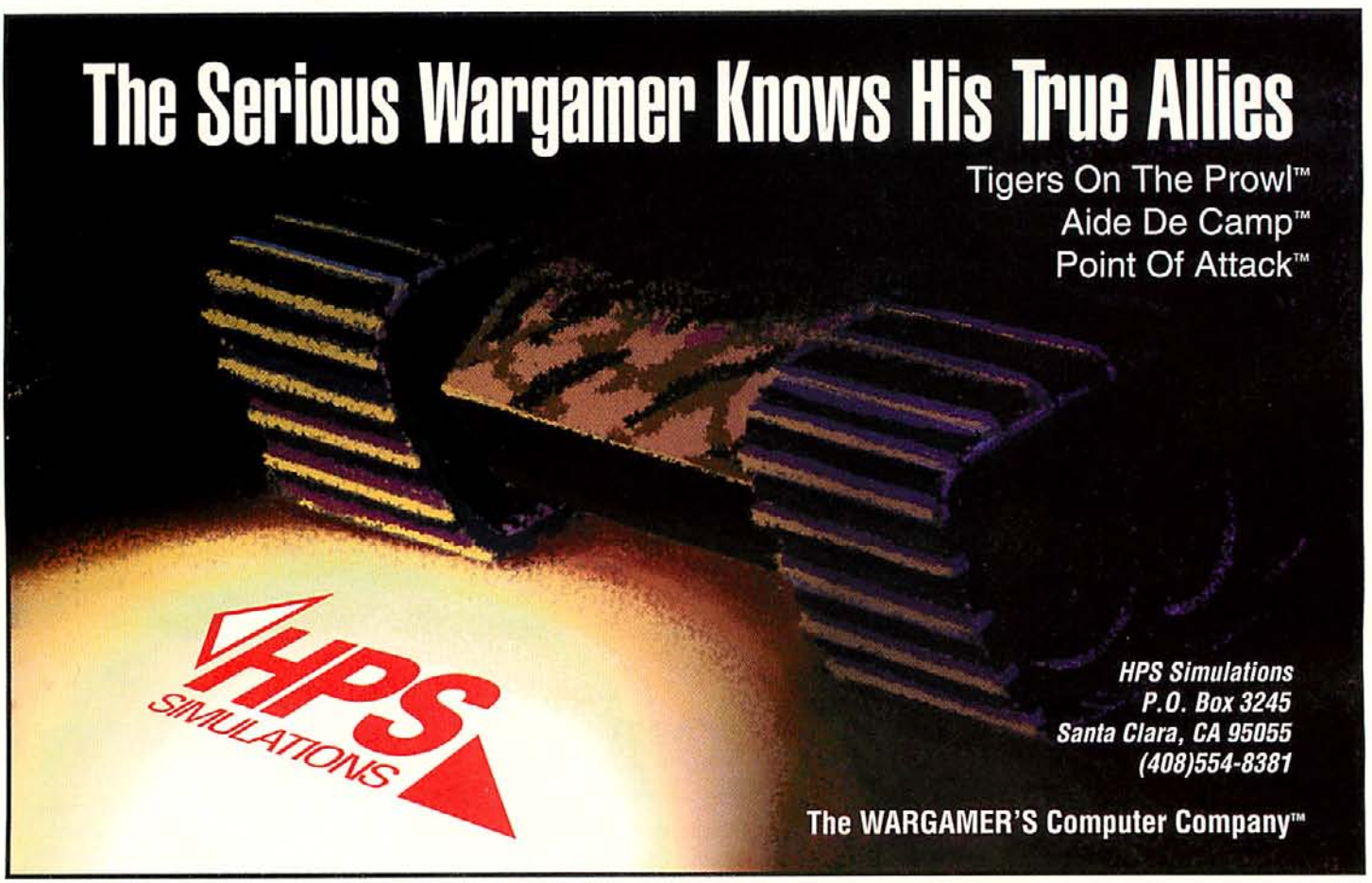
When you have to knock out an opponent, make sure you are not going to force all of the other players to align against you, then go for his jugular. Reputation isn't nearly as important as political and economic power, so forget about rumor-mongering and go straight after your opponent's cardinals and senators. Spare cash is not wasted on a smear campaign, however, as a low reputation increases the cost of buying political support.

Once an attack has been launched, carry it through to the utmost of your abilities and resources. Go after the opponent's trade as well as political position. If you can create enough financial problems for him, he may not be able to afford to retaliate.

MERCHANT PRINCE is an excellent game of strategy and intrigue. Against human opponents, victory requires skill, diplomacy and cunning. Going it alone is a sure way to wind up destitute and weak, while a careful balancing of opposing interests, combined with a strong financial empire, will bring you the power you so richly deserve. So, let's raise a glass to your success! But, please, you drink first....




**PAPAL DECREE** Not to suggest bribing the Pope, but a few timely gifts might be in order when election time rolls around.

# It ain't kid stuff.

## Subscribe to America's #1 Computer Game Magazine... and Score Up to 47% Savings!

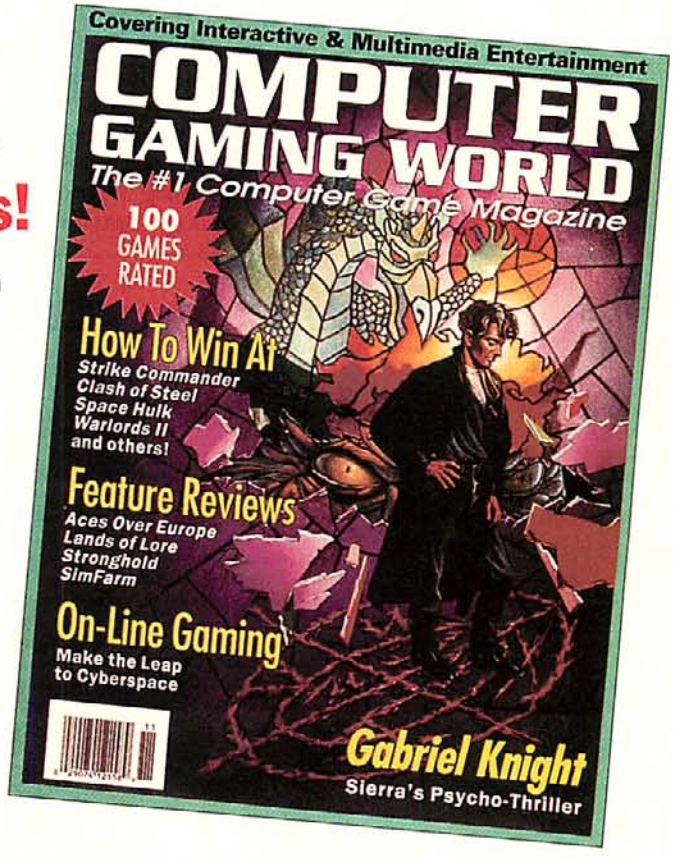
Get serious about playing and winning computer games with Computer Gaming World. In every monthly issue, you'll —

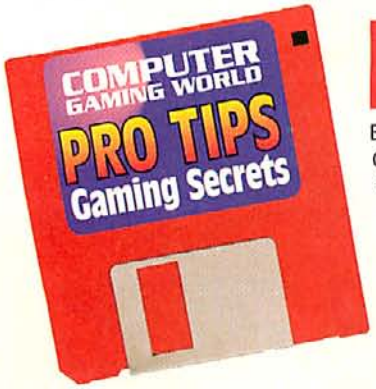
- Discover special "winning secrets" for your favorite games
- Get "first looks" and in-depth reviews of new computer games
- Explore the latest in multimedia, CD-ROM and interactive game environments
- Leap into virtual reality with online gaming
- Turbocharge your system for faster action... and much more!

Whether you're into fantasy, action, sports or strategy. Whether you use DOS, Windows™ or a Mac...now you can start racking up the points with Computer Gaming World. Subscribe now and save!

☐ One year/12 issues — $27.94 — **YOU SAVE 41%**
☐ Two years/24 issues — $49.97 — **YOU SAVE 47%**

Savings based on annual cover price of $47.40.




**PLUS FREE SOFTWARE!**

Become a major power player with Computer Gaming World's "PRO TIPS Gaming Secrets" software. It's the game master's secret weapon that reveals exclusive, just released tips from top-ranked computer game wizards. Yours FREE with your paid subscription.

## CALL NOW TOLL FREE

## 1-800-827-4450



**To guarantee your savings and FREE software, please mention this special 4-digit code to the operator when placing your order:**

**4Z94**

# OPPONENTS WANTED

Looking for a Patton to play against your Rommel? Need some fresh meat for network Doom-fests? On the hunt for a gamer's bulletin board system in your area? Well, you might find what you need on CGW's White Page. If you'd like to place your own ad, send us a postcard, CGW Poll card, letter, FAX [714-283-3444] or email (Prodigy [EXPT40B], CompuServe [76703,622], The Sierra Network at [Box 1048], GEnie or America On-Line at [CGW]). Generally, we run them only once, so send another each month you want your name listed. The ads themselves should serve as reasonable examples to write your own. However,

- Provide at least one telephone number. Do not forget the area code and mention whether the number is Home, Work or Modem.
- Include your city and state so that people who call you will know what time zone you are in and recognize it when they see it on their phone bill.

**ZiffNET**

***Computer Gaming World* magazine also appears as its own Forum on CompuServe's *ZiffNet*. To access our editors and writers on-line, just GO GAMINGWORLD. Topics include: Hey Editor!, Opponents Wanted, The Hardware Zone, Online Gaming and many more. Join us, won't you?**

### PRIVATE BULLETIN BOARD SYSTEMS

The Check Six BBS is an excellent source of all the latest flight simulation updates, utilities and messages. The system is registered on the InterNet as [checksix.com]. Check Six carries all of the major USENET newsgroups relating to air combat, flight simulations and other PC games like Doom. In addition, Check Six provides official customer support forums and InterNet email addresses for Keyboard Commander Corps [kee@checksix.com] and ThrustMaster [thrustmaster@checksix.com]. The system is also the Southern California hub for SimNet, a simulations network carried by bulletin boards around the country. The cost for a full year's subscription is only $25 (120 minutes/day; 4mb/day downloads and an InterNet email address). Limited free access is also available. Modem in at (714) 362-8299 / 8N1 1200-28.8kb; 5 nodes. Check six!

Check out The Informer BBS at (415) 468-6713/14/15. We have all of the latest flight sim updates and cracks, plus flight simulations conferences. Find new drivers and diagnostics, attend conferences and more. For more information, contact John Custer, 264 Oriente Street, Daly City, CA 94014-1531.

The Assault BBS is looking for game players! Play Trade Wars 2002, an exciting space adventure game. Challenge other fighters in The Pit. Go head-to-head in Chess. Play golf or bowling and challenge other players for the best casino score (yes, we have an on-line casino!). New games are always being added. Call (703) 490-8304 at 2400 Baud. Shaun McDonald SYSOP. We need you now!

Opponents wanted for Legend of the Red Dragon and Usurper. Alternately, tackle over 30 other on-line challenges, including role-playing, strategy, trivia and casino games. Call Dimension Z in Queens, NY at (718) 381-1643 where we support 14,400 baud. We have over 400mb of files available to download and access to World Message Exchange conferences. Free access, 24-hours a day, 7 days a week.

The Impress BBS at (918) 437-3754 has the latest Apogee, id, Software Creation and Epic MegaGames. We support 2400 to 14,400 Baud modems. FX/Term is strongly recommended and can be downloaded when you first log on.

Hey, Southern California, check out the Techno Surfing BBS! We have six phone lines available. There are tournaments scheduled for War in Russia, CHQ, Conquered Kingdoms, War in the Pacific, Air Warrior, Falcon F-16, MiG-29 and others, plus a games hint information section, game forums and multi-player BBS games. Check out our large shareware and .GIF library and our fantastic new online viewer section. We support 1200 to 38,400 Baud and offer a free trial period. Call (818) 769-0691.

Modem Gamers Forum BBS: Home of the Game Matcher Door for finding head-to-head gamers like you. A message area devoted to every modem-capable game known to mankind. Find opponents for games like 688 Attack Sub, Seawolf, F-29, Knights of the Sky, The Perfect General, Command HQ, Populous, Powermonger, Tom Landry Football, MechWarrior II, etc. Tournaments, hints, tips, and strategy articles available, along with patch files and updates for your modem gaming software. Two versions of TW2002 on-line (one exploiting the software bugs, one cleaned up game)! Mention CGW for long distance validation. Seeking Amiga, Mac and Atari users to form an even larger opponents base. Running Renegade BBS 7-17 software. Sysop: King Crumb — Babylon, NY (516) 893-4120, 14.4k, 8-N-1, 24 hours.

If you are looking for the best military PC flight simulators coverage, then you must check out SimNet based in the San Francisco Bay area. This new network is expanding nationwide currently with 20 BBS systems around the country and still growing. SimNet is originating from the Trade Center BBS (SimNet Headquarters). Call (415) 340-0197. There are four nodes, 2400 to 28,800 baud, 24 hours per day. Full access on your first call, no fees. SysOp: Gabe "Joker" Turk. Modem opponents wanted section online. Over 1.2 Gigs of files, including instant support from ThrustMaster, Inc.

The Dakota Central Telenet BBS in Carrington, ND (58421) is a BBS with many challenging on-line games and over 30,000 files available to download free of charge. On-line games include the massive Land of Devastation post-nuclear war RPG with an available EGA graphic user interface, plus you can battle other traders and aliens in TradeWars 2002 (tournaments start frequently). Explore with your character in the combat-happy RPG Wizard's Arena, and make big booms with others like Nuke War and Naval Battle. Trivia and card games are also on-line. Huge games file area. Free access, with a small fee for total access. 3 nodes; 300-14,400 Baud, 8-N-1. Call (701) 674-8115, 24 hours a day, 7 days a week.

Call Little Caesar's Nightclub at (416) 238-8238. All wargamers should check out message base #13 for discussions on computer wargaming. Find an opponent or leave a review. All computer platforms welcome.

The Elfspire Tome is a Fantasy Role-Playing Game Master's resource bulletin board. We feature role-playing echoes, on-line games, fantasy clip art and much more. 1200-9600 Baud. (415) 595-2387.

The Delphic Oracle is an all-gaming BBS. PlayRPGs (AD&D, GURPS), play-by-e-mail games (Diplomacy, ASL), Empires at War (a Napoleonic on-line game) and other games on-line. Find modem game players. Gamemasters and players wanted. Simi Valley, California (805) 582-9004 [2400 8-N-1]. Free access.

### GAMERS BY AREA CODE

Stamford, CT Space Marine seeking local cooperative or deathmatch play for Doom. Call me at home, (203) 322-7472.

Opponents wanted for modem/null modem gaming in Alabama. Call Roger at H-(205) 233-8482 or contact me on America On-Line at [Cmdr Foster].

Local opponents wanted for modem games: Falcon, Empire Deluxe, Perfect General, Command HQ, IndyCar Racing, etc. Call Joe in Lewisville, TX at H-(214) 317-8526 or FAX (214) 317-7937.

Seeking local opponents for modem gaming: Falcon 3.0, Hornet, MiG-29. Call me in the Denver, CO area at H-(303) 782-5213. Ask for Fred between 7-9pm.

Seeking modem gamers in the Omaha area for F-15 III, 688, Seawolf, and 1942: Pacific Air War. Call Greg Seewald at H-(402) 597-2837.

Looking for any opponents for any modem game in the Tiffin, Ohio area. I play The Perfect General, Global Conquest, VGA Planets, Command HQ, etc. Contact Fred Stevens at H-(419) 448-7331.

Portland, OR wargaming nut seeks other like-minded nuts to play The Perfect General, Empire Deluxe, Command HQ, Seawolf or just about any other play-by-modem game available. Hoping to set up a seven-player PBEM of FTF game of Third Reich within the next two months. Any interested players contact Jeffrey at H-(503) 659-4019 or by email via the InterNet at: jeffrey@teleport.com

Central (Acton) Mass. gamer is looking for local opponents to play F-15 III, Perfect General, Falcon 3, etc. Contact Jason Cameron at H-(508) 263-6134.

Looking for a local opponent for head-to-head or modem gaming Amiga or IBM clone. Your game or mine. Call H-(516) 758-7823. Ask for Nick. I'm in Patchoque, NY.

Searching for local opponents to do battle in playing Seawolf, Doom, Command HQ, 688 Attack Sub, Falcon 3.0 or any other games by modem. Call David in the Vancouver/lower mainland area anytime at H-(604) 264-7998 and let the games begin!

Modem player wanted in San Diego area. Seawolf, World Circuit, IndyCar, or other. Call Gary at H-(619) 579-6575.

I seek wargamers for play-by-mail Pacific War, Second Front and play-by-modem Battles of Destiny plus Empire Deluxe. Will consider any other wargame, too. Contact Chuck Frye at H-(803) 546-1543. I'm in Georgetown, SC.

Looking for modem opponents at 2400 baud for The Perfect General, World Circuit and Seawolf. Call Tim Berry in Arlington, TX at H-(817) 861-1100.

### THE NETWORKS

The following are voice contact numbers for many of the various on-line network services that connect gamers. Call them for more information.
**America On-Line:** (800) 827-6364
**CompuServe Information Service:** (800) 848-8990
**Novalink** (formally Digital Dreams) **Network:** (800) 274-2814
**GEnie:** (800) 638-9636
**The ImagiNation Network:** (800) IMAGIN-1
**Multi-Player Games Network:** (800) GET-GAME
**National Videotex (NVtel):** (800) 336-9096
**Prodigy:** (800) 822-6922 x556
**USA Today Sports Network:** (800) 826-9688

# Internet

# Multi-Player Games

# Worldwide Chat Lines

**FREE!**
Signup for our 4 or 8 hour plan, and we'll waive your first month's subscription fee!
Limited time only!

## And the lowest national online rates going.

NVN
A SERVICE OF
U.S. Videotel™

**How to get online:**
Call our Client Services department at **1-800-336-9096**. (In Houston, call **877-4444**.) Or register online using any comm software set at N-8-1 and full duplex. Dial by modem **1-800-336-9092**. When connected enter CG94WW and press <return>.

## Call 1-800-336-9096.

Write to us on the Internet: info@nvn.com

*Circle Reader Service #95*

# Xargon and Helium: The Elements Of Shareware

by Chuck Miller

I CONSTANTLY LURK ON-LINE IN SEARCH OF NEW SHAREWARE MEAT TO THROW AT CGW'S EDITORIAL BLOODHOUNDS, AND while doing so recently I came across a couple of juicy titles with impressive numbers of downloads from shareware fans. XARGON: BEYOND REALITY from **Epic MegaGames** is the first part of an action adventure trilogy similar to their JILL OF THE JUNGLE series. HELIOUS, the first of two parts by **Albino Frog Software**, is a strategy game that's a real gas to play. Both of these games have been around for a while, but that just adds to the seasoning for gamers who haven't had a taste of them yet.

### ARCHAEOLOGY 101

Meet Malvineous Havershim, an archaeologist of the Indy Jones flavor, on a dig in the forests of Madagascar. Here he discovers the ruins of the Blue Builders, named after the magnificent blue structures they left behind. While inspecting some mysterious writings to understand their language, Malvineous accidentally triggers the release of a noxious green gas (no, not Helious). He soon goes under, and the last thing he can remember is a great brown eagle. When he comes to, Malvineous finds himself in a bizarre, evil world, Xargon, named for its malevolent overlord.

Your job is to help Malvineous locate and destroy Xargon's main reactor. That means first, staying alive, and second, scooping up all the gold, gems and bonuses Malvineous can carry. The larger goal of the trilogy is to acquire the three power objects necessary to defeat Xargon and go home. This can take some time as the mazes of Xargon are huge, and they are teeming with foul-tempered creatures hankering for a niblet of your giblets: two-legged grunts, giant trolls, zombie lizards, enormous spiders, purple hoppers, robots and other zomboids of similarly nasty temperament. Not that the general environment is good for raising a family. There are enough acid pools, spikes and spears, rolling rocks, and mechanical mashers to ruin even a good pair of boots. Fortunately, Malvineous does have a few ways of dealing with slathering critters, like a laser, fire balls and even a few rocks when the going gets tough.

XARGON employs a dual-mode interface. You travel through Xargon in the Map Mode, a top-down perspective on the world which allows Malvineous to move around. You can save in this mode, and indeed you'd be foolish not to. When our hero reaches a new location, he swings into action, and the game moves to a side-scrolling perspective. During these scrolling arcade sections of the game (the great majority of play), you can't save. If Malvineous dies here, he is returned to the beginning of that level. While this does not count against your scoring, and Malvineous has unlimited lives, it does require that you monitor his health. Thankfully, some special items are placed in the more difficult locations to aid you in your efforts.

XARGON is an attractive, high energy game which took over three years to produce. Even the music and sound effects are professional enough to add to the experience. Graphics are well designed, drawn, and animated with no complaints save a move to high resolution (the current industry trend). Overall, the game surpasses the level of JILL OF THE JUNGLE, a popular and respected title in its own right.

If you enjoyed JILL OF THE JUNGLE, and other games like BIO MENACE and DUKE NUKEM, you should check out XARGON. Registration is $30, plus $4 shipping and handling, which gives you the next two volumes in the trilogy, THE SECRET CHAMBER and XARGON'S FURY. The former bids you to locate a special chamber and recover a magical lyre, while the latter initiates a confrontation with the vile Xargon himself. The game requires a 386 processor or better and VGA graphics.

To order, send your payment to Epic MegaGames, 10406 Holbrook Drive,




**SPIDER FIGHTER** The Caves of Xargon are no place for those with arachnophobia or fear of malevolent zomboids.

# BRING YOUR FAVORITE GAMES TO LIFE ON THE BIG SCREEN!



# tv GAME ZAPPER™

## ZAPS COMPUTER GAMES FROM PCs TO BIG-SCREEN TVs!

### LIMITED TIME OFFER!

*These sensational computer games are FREE—a $150 value—inside every GAME ZAPPER package!*

**Prince of Persia®**



by *Bröderbund*

**JetFighter II™**



by *Velocity*

**Spectre Challenger™**



by *Velocity*

GAME ZAPPER turns your living room into a virtual reality gameroom by boosting your favorite PC games from your VGA monitor onto your big-screen TV.

GAME ZAPPER converts your PC's VGA output to a video signal and supports 640x480 VGA resolution.

So plug in GAME ZAPPER — your favorite games will be larger than life!




*Recommended for DOS applications only*

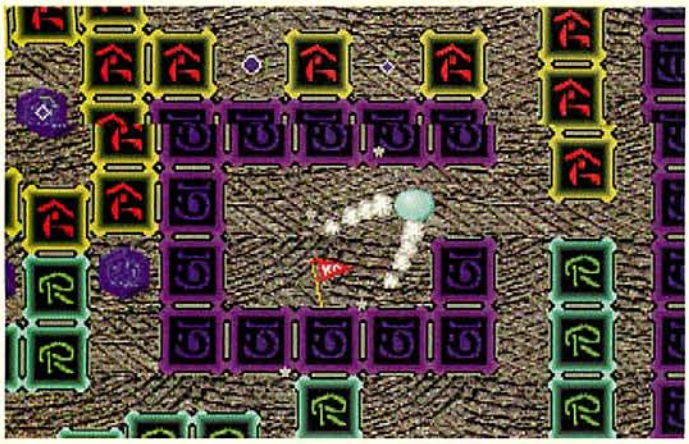
Circle Reader Service #39 ADS ADVANCED DIGITAL SYSTEMS 20204 State Rd. Cerritos, CA 90701 (310)865-1432 (310)809-6144 (Fax) (800)888-5244

Available at: • Best Buy • CompUSA • Computability • Computer City • Computer Express • Egghead Software • Fry's Electronics • Insight • J.D.R. • Micro Center • Tiger Software • USA Flex

Potomac MD 20854 or order with your charge card in hand by calling (800) 972-7434.

### A GASEOUS RELEASE

HELIOUS is a strategy game that requires as light a touch as the gas it's named after. It doesn't take a doctorate in physics to understand the concept: guide a gas-filled balloon from one end of a maze to the other while collecting all the blue gems and avoiding all the sharp objects in between. Sounds easy, right? Okay, smarty, see how many levels you get through. The shareware version of HELIOUS has nine levels varying in difficulty from "Okay, that's simple enough" to "You've got to be kidding!" Nine more levels come with registration, but the nine shareware levels will keep you popping for some time.



**GAS ATTACK** Leaving a trail of vapor in the mazes of Helious.

As Bernoulli may have said, there's more to this gas than meets the eye. When you move the balloon with the arrow keys or joystick, a blast of gas propels it in that direction. In doing so, you're using up some of the precious gas necessary to maneuver through the maze. Run out of gas and it's "game over, man." Likewise if you hit a sharp object. This is where a light touch comes in handy. Release that gas oh so carefully, and try to use momentum by bouncing off walls. Try not to brake unless absolutely necessary.

Now just to spice things up a bit, how about some weapons? Collecting different color gems (other than blue) enables offensive measures against darts and other dangerous obstacles. When a yellow diamond or red circle appear in the center of the balloon, you're the baddest balloon on the block. During this time you can also tackle the nine levels in any order you like. As a general guideline, work clockwise on the levels and avoid pointy objects. Otherwise, hit or shoot it. But the rest I'll leave for you to discover.

HELIOUS is no vaporware, it's a lot of fun for $12 ($10 plus $2 shipping and handling). Any graphics card will work, but a 386 system or better is required.

To order, contact: Albino Frog Software, Post Office Drawer 5822, Hollywood FL 33083-5822. Please send your payment in U.S. funds, check or money order only.

ZiffNET

To locate these games on-line, tune in to the *CGW* headquarters on ZiffNet. These games can be downloaded from ZiffNet both on CompuServe and on PRODIGY. On CompuServe, go to *Computer Gaming World*'s own forum (GO GAMEWORLD), Library 7, Shareware Sizzle. On PRODIGY, jump ZiffNet and Search by Title for the games listed here, or Search by Category to browse the entire Games Library.


SPECTRUM ELECTRONICS

HOURS: 6AM-11PM PST 7-DAYS

P.O. BOX 6295 SALINAS, CA 93912-6295

1-800-983-4321

CALL FOR CURRENT PRICES

| IBM CD | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7th Guest | 48 | Rise of the Robots | 52 | AD&D: Dungeon Hack | 33 | Rise of the Robots | 42 |
| 10 Year Collection-Interplay | 48 | Shadowcaster | 46 | AD&D: Ravenloft | 48 | Rules of Engagement 2 | 33 |
| 11th Hour | 43 | Shadow of the Comet - CD | 48 | Alien Breed | 19 | SSN 21 Seawolf CD or 3.5 | 47 |
| AD&D Al Qadim: Genies Curse | 43 | Sim City | 48 | Alone in the Dark | 36 | Star Reach | 36 |
| AD&D Dark Sun | 43 | Spearms of Jorune: Alien Logic | 52 | Alone in the Dark 2 | 37 | Subwar 2050 | 37 |
| AD&D Dungeon Hack | 50 | Space Hulk | 35 | Archon Ultra | 34 | System Shock | 49 |
| AD&D Eye of the Beholder Tri | 35 | Star Trek 25th Anniv. | 55 | Arena: Elder Scrolls | 44 | Tie Fighter | 46 |
| AD&D Ravenloft | 51 | Strike Commander W/ Tac. Ops. | 56 | Battles of Napoleon | 15 | Ultima VIII: Pagan | 52 |
| Aegis: Guardian of Fleet | 52 | Syndicate Plus (Syn. & Am. Rev.) | 45 | BioForge | 50 | Ultima VIII: Pagan Spch Pk | 17 |
| Alone in the Dark | 54 | The Horde 3.5 or CD | 39 | B.O.A. Scen Disks 1-6 | 55 | Wargame Contr. Set II: TANKS | 39 |
| Aric Baron CD or 3.5 | 48 | Theme Park | 45 | Betrayal at Krondor | 39 | Warlord II | 43 |
| Beneath a Steel Sky | 29 | Ultima I-VI | 30 | Bloodnet | 39 | When Two Worlds War | 27 |
| Betrayal at Krondor | 30 | Ultima VII Complete | 42 | Castles II | 39 | Wing Commander Armada | 49 |
| Bloodnet | 26 | Ultima VIII: Pagan w/Speech Acc. | 47 | Clash of Steel | 36 | Wings of Glory | 49 |
| Castles 2 | 42 | Ultima Underworld I & II | 30 | Corridor 7 | 29 | X-Com: Terran Defense Force | 43 |
| Comanche w/Expanded Miss. | 49 | Under a Killing Moon | 55 | Dark Legions | 39 | X-Wing | 43 |
| Conspiracy | 56 | Wing Commander 1 Deluxe | 41 | Defa V | 42 | X-Wing 1: Imerial Persuit | 19 |
| Daemongate CD or 3.5 | 41 | Wing Commander 2 Deluxe | 32 | Dorat | 42 | X-Wing 2: B-Wing | 19 |
| Dark Legions | 32 | Wing Commander I / Ultima VI | 40 | Dune II | 34 | 3DO | |
| Dracula Unleashed | 40 | Warlock | 47 | F-14 Fleet Defender | 48 | 3DO System | 489 |
| Dragon Lore - Chapt. 1 | 47 | Wrath of the Gods WIN | 38 | Fields of Glory | 44 | Escape from Monster Manor | 46 |
| Dragonsphere | 38 | IBM JEWEL CASE | 49 | Flight Simulator Tool Kit | 29 | Horde | 49 |
| Flight Simulator Tool Kit | 49 | 7th Guest | 54 | Front Page F.B.Pro | 22 | John Madden Football | 49 |
| Gabriel Knight | 54 | Chaos Continuum | 45 | Frontier: Elite 2 | 29 | Lost Files of Sherlock Holmes | 42 |
| Great Naval Battles II | 45 | Comptons Interac. Ency. | 42 | Genghis Khan II | 33 | Out of this World | 39 |
| Hell Cab V1.1 | 42 | Dracula Unleashed | 52 | Gobliiins Domination | 23 | Road Rash | 37 |
| Iron Helix | 52 | Dune | 56 | Grandest Fleet | 25 | Shock Wave | 25 |
| Journeyman Project | 48 | Indiana Jones: Atlantis | 48 | Great Naval Battles II | 25 | Super Wing Commander | 45 |
| Labyrinth of Time | 45 | Juland | 26 | Great War 1914-1918 | 23 | ATARI | 38 |
| Lands of Lore | 44 | King's Quest 6 | 23 | Harpoon II | 23 | Jaguar System | 48 |
| Mech Warrior II | 46 | Legend of Kyrandia | 23 | Heir to the Throne | 29 | Alien vs Predator | 36 |
| MegaRace - CD | 36 | Lord of the Rings | 29 | Isle of the Dead | 29 | IBM HARDWARE | 54 |
| Microcosm | 49 | Maniac Mansion 2 | 29 | Kingdoms of Germany | 27 | CD-ROM Drives | 36 |
| Myst-WIN | 49 | Return to Zork | 15 | Kingmaker | 23 | Sound Blaster 16 Basic | 37 |
| Nomad | 39 | Secret Weapons of Luftwaffe | 23 | Master of Orion | 23 | Sportster 14.4 FAX/Modem Int. | 39 |
| Outpost | 45 | Star Wars Chess | 23 | Mech Warrior II | 46 | Sportster 14.4 FAX/Modem Ext. | 46 |
| Pacific Strike w/Speech pack | 51 | IBM 3.5 | 20 | Microsoft Arcade-WIN | 20 | WE ALSO SELL: | 165 |
| Privateer | 50 | 1942 Pacific Air War | 39 | Nomad | 39 | SEGA, SNES, Amiga CD32, MAC | 140 |
| Rebel Assault | 44 | Aces of the Deep | 42 | Outpost | 45 | and all adult titles | 39 |
| | | AD&D: Al Qadim: Genie's Curse | 45 | Perfect General w/Scen | 36 | New Classic SSI Wargames | 15 |

PRICES SUBJECT TO CHANGE, DEFECTIVES REPLACED WITH SAME PRODUCT
20% RESTOCKING FEE ON RETURNED & REFUSED ITEMS
PAYMENT: CHECKS (ORDERS SHIPPED WHEN CHECK CLEARS)
MONEY ORDERS (TREATED AS CASH)
CA residents add 7.25% sales tax / HANDLING $2 PER ORDER
SHIPPING: FREE GROUND SHIPPING WITH $100 PURCHASE, UNDER $100
PRIORITY MAIL ADD $4, 3-DAY UPS ADD $5 PER ORDER,
2ND DAY AIR ADD $7, OTHER SHIPPING TERMS ARRANGED. COD ADD $4

WE SELL ALL COMPUTER & VIDEO ENTERTAINMENT PRODUCTS

Circle Reader Service #115






Girlfriend: The adventure with $10^{30}$ commands

Actually, the number is too high to count! You see, *Girlfriend*™ uses artificial intelligence, so you can ask her *any* question and she will answer on your PC screen or audibly. Dream up things for her to do, and then watch in VGA color! Players tell us they never get bored because *Girlfriend* learns new words and ideas from every conversation. Every time is different, and there is no endgame! Watch for *Girlfriend* at your favorite store or order direct: *Girlfriend Lisa* PG-13 $59.95 *Girlfriend Teri* PG-13 $69.95. Add $4 S&H. Sound Blaster compatible voice add-on: $29.95. Specify disk format. Caution: mature subject matter! *For FREE info on our software, including adult kits, circle the reader service number below! Dealer inquiries invited.*

**AIVR Corp. (800) 324-AIVR**
709 Lingco #106, Dept CG407
Richardson, TX 75081 USA
Tel (214) 235-4999, Fax (214)235-4992

Circle Reader Service #42

# Multimedia Specialists

## 1-800-233-0010

Tech Support: (608) 233-8832

P.O. Box 55164
Madison, WI 53705-8964

*Circle Reader Service #94*

Visa & Master Card welcomed!

Hours: M-F 9am - 6pm
Sat. 9am - 1pm CST

CREATIVE
CREATIVE LABS, INC.

### Game Blaster CD 16

New from Creative Labs! The Game Blaster CD 16 multimedia upgrade kit features a Sound Blaster 16, a double speed CD-ROM drive, speakers and joystick, and an incredible software bundle including Rebel Assault, Return to Zork, Iron Helix, SIM City 2000, Creative CD Blaster and more!

**NEW!** **$379**

CREATIVE
CREATIVE LABS, INC.

### Digital Edge 3X

New from Creative Labs! Along with a triple speed CD-ROM drive, the new Digital Edge 3X features the Sound Blaster 16 SCSI-2, Groliers Multimedia Encyclopedia, Voice Assist, Text Assist, Digital Morph, Rebel Assault, Indy 500, The Simulation, and much more!

**Triple Speed!** **$685**

NEC
MultiSpin 3Xi



Power users, this is your CD-ROM drive! Lightning fast internal triple speed drive with 195ms access time, 450KB/sec transfer rate, and a continuous-flow 256KB cache. Exceeds MPC level 2 specifications, and is PhotoCD Multisession, and QuickTime compliant. Switch-able SCSI-1/SCSI-2 interface.

**$439**

CHINON
CDS535 Double Speed CDROM drive



With an access time of 250ms, and a double speed data transfer rate of 300KB/sec and a 256KB buffer, the CDS-535 is one of the fastest drives around! PC Magazine Editor's Choice!

**$299**

PLEXTOR
DM3028 Double Speed Plus CDROM drive

This high performance SCSI2 CD-ROM drive is intended for demanding multimedia applications such as animation, graphics, 3-D modelling and full motion video. It features a 240ms access time, a 64KB buffer and a 335KB/sec transfer rate.

**$257**

## MULTIMEDIA HARDWARE

### MM UPGRADE KITS

| | |
|---|---|
| Game Blaster CD 16 | 379 |
| Edutainment CD 16 | 324 |
| Digital Edge 3X (NEW!) | 685 |
| Creative Omni CD int. | 199 |
| MV Reno (NEW!) | 275 |
| MV 2000 Family kit | call |
| MV 3000 Super kit | call |
| MV 4000 Premium kit | call |
| MV 5000 Pro kit | call |
| ReelMagic Upgd. kit | 619 |
| Reveal DC230 Hm Ofc kit | 249 |
| Reveal DC240 Educ. kit | 249 |
| Reveal DC250 Ent. kit | 249 |
| Reveal DC260 Edut. kit | 259 |
| ThunderMedia kit | 239 |
| Sony Media Magic kit | 169 |

### CD-ROM DRIVES

| | |
|---|---|
| Aztech CDA268-01A w/kit | 149 |
| Chinon CDS 535 internal | 299 |
| Chinon CDS 535 int. w/kit | 332 |
| Chinon CDX 535 external | 424 |
| Chinon CDX 535 ext. w/kit | 449 |
| Creative Omni CD int. | 199 |
| MicroSols. Backpack dbl spd | 327 |
| Mitsumi FX001D dbl spd w/kit | 169 |
| NEC Multispin 3Xi internal | 439 |
| NEC Multispin 3Xe external | 539 |
| NEC Multispin 3Xp portable | 418 |
| NEC Multispin 4X Pro (NEW) | 919 |
| Plextor DM3028 internal | 257 |
| Plextor DM3028 int. w/kit | 319 |
| Plextor DM5028 external | 379 |
| Plextor DM5018 ext. w/kit | 429 |
| Plextor QUAD Speed | call |
| Toshiba 3401B internal | 319 |
| Toshiba 3401E external | 448 |
| Sony CDU-33A bare drive | 167 |
| Sony CDU 33A w/kit & 2 CDs | 169 |
| Sony CDU-561-01 int. | 259 |
| Sony CDU-7811-10 ext. | 489 |

### SOUND CARDS

| | |
|---|---|
| Audio Magician Plus | 239 |
| Gravis Ultrasound | 169 |
| Gravis Ultrasound | 126 |
| Gravis Ultrasound MAX | 184 |
| MV Pro Audio Studio 16 | 149 |
| MV Pro Audio Spectrum 16 | 119 |
| MV Pro Audio Spect 16 basic | 95 |
| MV Pro Audio Power Pak | 59 |
| MV Pro 3-D Korg | call |
| MV Premium 3-D SCSI-2 | call |
| MV Premium 3-D MultiCD | call |
| MV Deluxe MultiCD | call |
| MV Pro Wavetable Upgd | call |
| Sound Blaster Deluxe | 55 |
| Sound Blaster Pro Deluxe | 79 |
| Sound Blaster Pro Value Ed. | 79 |
| Sound Blaster 16 Basic | 104 |
| Sound Blaster 16 Value Ed. | 109 |
| Sound Blaster 16 | 135 |
| Sound Blaster 16 MultiCD | 135 |
| Sound Blaster 16 MultiCD/ASP | 172 |
| Sound Blaster SCSI-2 | 172 |
| Sound Blaster SCSI-2/ASP | 199 |
| ASP upgrade chip | 52 |
| Wave Blaster Option | 175 |

### VIDEO CAPTURE/OUTPUT

| | |
|---|---|
| ADS Game Zapper | 104 |
| Video Blaster SE | 239 |
| Video Spigot for Windows | 236 |
| Pro Movie Studio | 295 |
| Sigma Designs ReelMagic | 364 |
| Reel Magic Lite (NEW!) | 295 |

**Call for speakers, SCSI controllers, more!**

## CD-ROM TITLES

***We only sell CD-ROM!***

| | |
|---|---|
| 1942 The Pacific Air War | call |
| 7th Guest | 43 |
| 7th Guest 2:11th Hour | 53 |
| 7th Guest/Dune | 47 |
| Aegis: Guardian of Fleet | 48 |
| Air Warrior | 39 |
| Al-Qadim | 41 |
| Alone in the Dark | 44 |
| Americana MPEG | call |
| Animal Kingdom MPEG | call |
| Arthur's Teacher Trouble | 36 |
| Armored Fist | 41 |
| B17 Flying Fort. w/SS2 | 32 |
| Backroad Racers | 24 |
| Battle Isle II | 39 |
| Beneath a Steel Sky | 39 |
| BioForge | call |
| Blue Force: Next of Kin | 37 |
| Buzz Aldrin's Race Space | 55 |
| C.I.T.Y. 2000 | 31 |
| Campaign | 32 |
| Capitol Hill MPC | 26 |
| Castles II | 46 |
| CD-ROMIX! Freex | 14 |
| CD-ROMIX! Hardcase | 14 |
| CD-ROMIX! Prime | 14 |
| Challenge CD Pack | 26 |
| Chaos Continuum, The | 40 |
| Chessmaster 4000 | call |
| Commanche w/Mis. 1&2 | 57 |
| Companions of Xanth | call |
| Compton's Int Encyc. MPEG | 114 |
| Conq Robin Hood WIN | 39 |
| Conspiracy | 41 |
| Critical Path | 44 |
| Curse of Enchantia | 21 |
| CyberRace | 36 |
| Daemonsgate | 29 |
| Darksun | 47 |
| Dark Legions | 41 |
| Dark Seed | 37 |
| Day of the Tentacle/M.M. II | 37 |
| Dinosaur Adventure CD | 40 |
| Dracula Unleashed | 45 |
| Dragon's Lair | 33 |
| Dragon's Lair MPEG | 33 |
| Dragonsphere | 47 |
| Dune/7th Guest | 49 |
| Dungeon Hack | 36 |
| Empire Dlx Scenario Dsk | 19 |
| Encarta Encyclopedia '94 | 89 |
| ESPN Baseball Tonite | 43 |
| ESPN Sun. Nite Football NFL | 39 |
| European Racers | 35 |
| Eye of Beholder Trilogy | 49 |
| Eye of the Beholder 3 | 46 |
| F117&F15 Senario Disk | 44 |
| FA 18 Hornet | 54 |
| F15 Strike Eagle 3 | 44 |
| Family Doctor 3rd Edition | 45 |
| Fantasy Empires | 37 |
| Frontier Elite II | 34 |
| Gabriel Knight | 43 |
| Gateway 2 | 32 |
| Geekwad Games of the Galaxy | 25 |
| Gettysburg | 39 |
| Great Naval Battles I | 49 |
| Great Naval Battles II | 41 |
| Gunship 2000 w/Scenario | 35 |
| Guy Spy | 26 |
| Harrier Assault SVGA | 39 |
| Hell Cab v1.1 | 46 |
| High Command | 48 |
| Horde, The | 49 |
| Horde, The MPEG | 34 |
| Humans, The | 23 |
| Inca | 37 |
| Inca 2 | 34 |
| Indiana Jones Fate of Atlantis | 37 |
| Inherit the Earth | 24 |
| Interplay's 10 Year Anthology | 45 |
| Iron Helix | 54 |
| Jet Pack | 43 |
| Jones in the Fast Lane | 36 |
| Journeyman Project | 42 |
| Jump Raven | call |
| Just Grandma & Me | 32 |
| Jutland | 46 |
| King's Quest V | 40 |
| King's Quest VI | 42 |
| King's Quest VI Upgd | 33 |
| King's Ransom | 48 |
| Labyrinth of Time | 39 |
| Lands of Lore | 46 |
| Laura Bow 2 | 38 |
| Lawnmower Man | 42 |
| Legend of Kyrandia | 37 |
| Lesuire Suit Larry 6 | call |
| Lightning CD | 37 |
| Loom | 31 |
| Lord of the Rings | 35 |
| Lord of the Rings MPEG | 39 |
| Lost in Time | 28 |
| Lost Treasures of Infocom | 43 |
| Lost Treasures Infocom II | 39 |
| Lunicus | 28 |
| Mad Dog McCree | 43 |
| Man Enough | call |
| Man Enough MPEG | 42 |
| Mantis Exp Fighter | 45 |
| Mavis Teaches Typing | call |
| Matinee MPEG | 37 |
| Mayo Clinic: Family Health | 35 |
| Mayo Clinic: Total Heart | call |
| Mech Warrior II | 43 |
| Mechamander | 43 |
| Mega Race | 32 |
| Microcosm | 48 |
| Microsoft Golf for Windows | 39 |
| Mosaic Magic | 31 |
| MPC Wizard 2.0 | 12 |
| MPC Wizard 2.0 MPEG | 32 |
| Myst MPC | 47 |
| Neurodancer MPEG | call |
| Newsweek Interactive #1 | 27 |
| Newsweek Interactive #2 | 27 |
| New York MPEG | call |
| Oceans Below MPC | 27 |
| Oh No More Lmngs Dual Pk | 35 |
| Outpost | 44 |
| Patrician | 36 |
| PC Globe Maps & Facts | 32 |
| Pinball Arcade | 35 |
| Police Qst 4:Open Seas | 46 |
| Police Quest 4 MPEG | call |
| Protostar, War Frontier | 41 |
| Privateer | 56 |
| Quantum Gate | 44 |
| Quicken CDROM | 64 |
| Ravenloft | 49 |
| Rebel Assault | 42 |
| Return of the Phantom | 37 |
| Return to Zork | 42 |
| Return to Zork MPEG | call |
| Ringworld, Revenge Pat. | 31 |
| Rodney CD-ROM | 35 |
| Romagain | 25 |
| Romaterial v1.0 | 39 |
| Sam & Max Hit the Road | 28 |
| Scrabble Deluxe | 43 |
| Secret of Monkey Island II | call |
| Secret Weapons of Luftwaffe | 42 |
| Seven Days in August MPC | 45 |
| Sh. Holmes Con Det 3 | call |
| SimAnt Enhanced | 37 |
| Shadowcaster | 35 |
| SimCity Enhanced | call |
| SimCity 2000 | 43 |
| Sound Track MPEG | 32 |
| Space Ace MPEG | 48 |
| Space Quest 4 | 39 |
| Space Shuttle MPC | 31 |
| Spear of Destiny | 12 |
| Spirit of Excalibur | 32 |
| Sporting News MPEG | 47 |
| Sports Illus Almanac MPC | call |
| Sporting News Pro Football | 38 |
| Star Trek 25th Anniv | 24 |
| Star Trek Next Gen | 51 |
| Star Wars Chess MPC | 54 |
| Stellar 7 | 39 |
| Street Atlas 2.0 USA WIN | 39 |
| Strike Commander/Tactical | 89 |
| Stronghold | 32 |
| Syndicate Plus | 51 |
| System Shock | 35 |
| T2 Chesswars | 41 |
| Team Yankee 2 | 53 |
| Tetris Gold | 26 |
| TFX | 56 |
| Tony LaRussa BB 2 | 28 |
| Total Baseball 1994 Edition | 44 |
| Total Distortion | 29 |
| U.S. Atlas 4.0 | call |
| Ultima Under. 1 & 2 | 32 |
| Ultima VIII w/Speech Pack | 53 |
| Under a Killing Moon | 49 |
| Under a Killing Mn MPEG | 51 |
| Video Cube | call |
| Video Cube Space MPEG | 42 |
| Video Cube:Sports | 32 |
| Video Game Solution CD | 42 |
| Who killed Sam Rupert | 22 |
| Who Shot Johnny Rock | 20 |
| Wing Commander I Deluxe | 36 |
| Wing Commander II/Ult UW | 34 |
| Wing Commander II Complete | 53 |
| Wing Commander/Ultima VI | 34 |
| Wolf Pack | 37 |
| World Atlas MPEG | call |
| World of Xeen | 38 |
| World Circuit Gran Prix | 35 |
| World View MPEG | call |
| Wrath of the Demon | 26 |
| Wrath of the Gods | 42 |

No surcharge on credit cards. CODs accepted with $6 charge. Software shipping $5/order, Canada $8/order, hardware shipping is 5%, Canada is 6%. Personal and company

# The Wizard of Voxels

*To kick off his new column about the people and technologies behind the magic of computer games, Paul Schuytema talked to programmer Kyle Freeman about how he turned pictures of the brain into computer graphics that dazzle the mind.*

**by Paul C. Schuytema**

AFTER PROBING THE DARKEST SECRETS OF THE HUMAN BRAIN, AFTER CREATING THE HARDWARE and software that makes a three-dimensional CAT-scan come alive, what comes next? If you're Kyle Freeman, it's time to fly a helicopter.

Freeman, an electrical engineer by trade, is **NovaLogic**'s whiz-kid of Voxel Space technology and, as a result, was the key programmer in the creation of COMANCHE: MAXIMUM OVERKILL. Prior to trying his hand at game design, he developed medical imaging technologies, using voxel graphics to represent the human brain right down to the electromagnetic contents of the cerebral cortex. Why, then, leave the brain for game design? The challenge was gone. And for Freeman, who started programming games in college, no other genre of computer applications seemed more challenging.

Taking the knowledge he garnered from the medical technology field, he set out to make a visceral, movement-based game featuring realistic, rolling terrain. In an advanced CAT-scan, each view is preprogrammed and each frame may take up to 10 minutes to render on a micro computer. How, then, could Freeman take this technology and create a real-time voxel imaging system using only a 386? "Simple," he says. "It's all in the challenge."



**FREEMAN AS FLYER** Kyle Freeman creates worlds that are so filled with realistic imagery, he can't resist the temptation to fly around in them himself.

### PUMP UP THE VOLUME PIXEL

To understand how these two seemingly disparate fields are related, you need to know a little about voxel graphics. The term "voxel" is formed from the collision of two other words, "volume" and "pixel." In the traditional two-dimensional world of PC bit-mapped graphics, a pixel is a finite graphical unit, occupying space and containing information such as color and luminosity. A voxel is a similar unit, but it exists in a three dimensional world and has the potential to contain much more information. In a CAT-scan, for instance, a voxel may contain color information, brain activity information, and radiation information. In a voxel taken out of COMANCHE, there is the density of the solid (water is less dense than rock), the color, the reflectivity, the angle towards the light source, and so on.

In traditional flight simulators, the three dimensional world is modeled in polygons, with the world-data consisting of shape and position information. In a voxel world, the information stored is not all that different, but instead of discrete polygons, a voxel world is made up of thousands upon thousands of small voxel units.

Freeman really didn't approach the COMANCHE project with the intention of redefining PC graphics. He simply tackled the task using the tools with which he was familiar. In his medical imaging work, all of the rotations and manipulation of voxel images were predetermined. Freeman wanted to break that barrier to display voxel graphics in real time. Basically, he began the project from the top and worked down. Using his 386 machine, he began working with true photorealistic images, and gradually manipulated and compromised the image quality until he had reached the real time mark he was shooting for.

Listening to Freeman discuss the process, I couldn't help thinking that this was far too easy for him, like breathing, or perhaps the more complicated task of tying a shoe. As we talked further, I learned more about the nuts and bolts Freeman had to manipulate to make his vision become a reality.

He programs exclusively in 32-bit native mode, meaning that he uses assembly lan-

# PICK-UP THE PHONE



# AND PICK TWO GAMES FREE!




# 1-800-795-5979

# Choose Any Two Sierra Games FREE When You Switch to Sprint!*

Sprint® long-distance service just became more valuable - up to $159.90** more! Now, when you switch your home long-distance service to Sprint, you can select any Sierra game, free! After enjoying six months of high-quality long-distance, you may qualify for a second free Sierra game.***

Only Sprint can offer you a nation-wide 100% digital, fiber optic network that provides the long-distance quality and reliability you need. Experience for yourself Sprint's "fiber-optic" clarity that makes both your long-distance calls and PC data transmissions crystal clear and virtually error free.

Unsurpassed call and data clarity is just one of the many benefits you will enjoy as a Sprint customer.

### The Most® A Unique Calling Plan

Sprint offers an unprecedented long-distance calling plan called The Most available now for all customers. The Most will save Sprint Customers 20 percent off already low rates on calls each month to whomever you talk to the most, including international calls–even if the called person is with a competitive long-distance carrier.

The Most will also provide an automatic 20 percent discount off all calls to Sprint's millions of dial 1 customers, anytime and anywhere.

When the person you talk to the most in a given month is a Sprint Customer, Sprint will combine both discounts for an effective overall savings of 36 percent on calls to that number.****

### Save on Long-Distance When You're away from home too!

Sprint's FONCARD℠ lets you continue to take advantage of long-distance calling and savings even when you're away from home. The FONCARD is free, with cards available for every member of your family.

### The Service You Deserve

At Sprint, we make no compromises when it comes to dependable, personal service - we do it all; operator services, directory assistance, customer service, even instant credit for wrong numbers. And we do it 24 hours a day!

### No Risk Guarantee

Your satisfaction is guaranteed: we'll pick up the cost of switching your long distance to Sprint, and will even pay to switch you back if you are not completely satisfied. (Some restrictions apply.)

So why not sign up for Sprint and receive the clarity, savings and service you want while getting two Sierra games you enjoy?

Sprint®

SIERRA®

* Offer valid only in the U.S. and for new Sprint customers. Not valid for FONCARD-only orders. One offer per household. Certain restrictions apply.

** Retail value of Sierra Games. Offer valid on any current Sierra product with a retail value of $79.95 or below

*** To qualify for a second game, the customer must bill $20 per month in 3 of the first 6 months.

**** THE MOST discounts apply to in-state/intraLATA calls only where authorized.




**WINTER WONDERLAND** Choppers in COMMANCHE operate in a variety of conditions, just as their real-life counterparts.

guage, even bypassing the computer's floating point unit ("it just takes too long for the information to go to and return from a math coprocessor," he told me). When he began the project, there was virtually nothing written for the 386 or 486 that used the native mode. The standard was 16-bit programming. Freeman had to write his own DOS extender and his own development environment, learning by trial and error since the documentation for programming 32-bit native mode hadn't yet been written. Writing in assembly language, Freeman was able to create graphic routines that operated from 100 to 1000 times faster than those created by the C programming language.

This low-level hacking gave Freeman the tools he needed to create his organic, voxel world. But how did he create the realistic rolling terrain and dramatic crevasses? He tried creating worlds in a 3-D modeling package, but found that even with detail levels set at the 5-6 million polygon range, he still wasn't reaching the level of perfection he craved. So, using programs of his own creation, Freeman sculpted the terrain, pushing the shapes around and molding the landscape as if it were clay.

After putting together a terrain map, he still felt that it looked too soft, too artificial. The natural hacker then crafted a few program routines that would morph his voxel worlds, simulating a few million years of erosion, a few seismic disasters, and the constant pummeling by the weather. Each voxel of terrain contains information about the density of each unit, for the rocks, the soil types, the water, etc. Directing his erosion algorithms to take into account the varying density of the material is one of the ways in which he was able to create such realistic landscapes.

## VOXELS TAKE FLIGHT

Oddly enough, it wasn't until the final weeks of the project that COMANCHE became a helicopter simulator. Before then, it was merely a real-time terrain modeling system. As Freeman worked to bring his terrain system together with the flight-model of the RA-66 Comanche, he decided to make the program expandable. Partly because of time constraints, partly because of a desire to leave the game open-ended, he left hooks and ports of access into his tightly optimized code.

With the release of the OVER THE EDGE expansion disk, Freeman has finally taken COMANCHE as far as he wanted it to go. Effects such as reflection and haze were not added to the earlier missions, because the information in the terrain voxels would have to be re-written. Freeman thinks that's just fine, though. He likes the




Circle Reader Service #119



Circle Reader Service #160

SOON TO COME — JOYSTICKS FOR MACINTOSH & 3DO




# Fly higher.

Higher. Faster. Farther.
CH Products is defining new standards of design and performance for computer pilots. We'll empower you to effortlessly relay commands with a feel of absolute control... to swoop, loop and soar like never before.

## Move faster.

Get your hands on the top gun precision FLIGHTSTICK PRO™, the red-hot FLIGHTSTICK™, or the beginner's JETSTICK™ line of joysticks. Or our lightning-fast GAMECARD 3 AUTOMATIC™. And VIRTUAL PILOT™, a yoke that will defy your concept of reality. And there's more on the horizon. From drawing board to your fingertips, ours is a relentless pursuit of new and better products. CH Products began with a dream 25 years ago, and we've never looked back. Today, we give you the wings to fly.

## Reach farther.

Higher.
Faster.
Farther.




CH PRODUCTS

*Circle Reader Service #190*

For all IBM and Compatible PC's

970 Park Center Drive Vista, CA 92083
Phone: 619.598.2518 Fax: 619.598.2524

USA MADE

TM 1993 CH Products, a Joystick Technologies Inc. Co.

integrity of the early missions, and the fact that a pilot can land the chopper on the water doesn't phase him. Instead, he thinks of the water in the earlier missions as shallow, stagnant pools. Like any true programmer, he has turned a program limitation into a "feature."

As I was listening to Freeman discuss the sheer number of calculations involved in one frame of on-the-fly animation, calculating up to a million data points and displaying nearly 100,000 surface variations per screen, I wondered just how data-intensive the terrain information is in COMANCHE, but the exact voxel space scheme which makes this possible is part of the company's proprietary process which makes this voxel technology possible and, with a patent pending, the company is naturally reticent to release specific information.

As each frame in COMANCHE is being rendered, the computer recreates the terrain from the building-block voxels in the terrain database. In Voxel Space, the terrain is not merely surface data, but the voxels exist even below the surface, filling out the entire solid. As a frame is calculated, the opaque building blocks are assembled and basic calculations are performed, such as calculating the player's viewing angle and relating that information to the angle the voxel has to the dominant light source, thereby arriving at the radiosity of a particular part of the image. When calculating reflections off the surface of lakes and rivers, the graphics engine takes into account the angle or strength of the light source, and how much of the surface image is projected over the water. Then through a creative use of colorizing algorithms, the program blends the color information of the reflected image with that of the water to achieve an appropriately muted mirror image.




**VOXEL VISTAS** Combining measurements of light sources with clever colorizing algorithims creates wisps of cloud cover and rippled reflections in the lake.

### BUY A VOXEL

Freeman takes pride in his programming, paying careful, almost maniacal, attention to details. He is proud of his work on COMANCHE, and he feels that it allows the players to explore truly realistic terrain. When asked why the graphics seem so different than the other simulators on the market, Freeman remarked, "There's a lot more craft in it."

So what future wizardry can we expect from Kyle Freeman? He sheepishly told me that that particular information was classified for the time being. He did give me a hint, though, saying that it would be completely photorealistic and in real time. "On a PC?", I asked. "Sure, no problem," was the reply.


## Where Have You Seen This Before?



**Yes! On the flier that came with your ThrustMaster controls**

***Interface Dynamics*** **now has an affordable system of brackets that provide a complete *Cockpit Environment*.**

**Call, write, or fax for a free brochure.**

**Interface Dynamics Corporation * 294 Forest Road * Wolfeboro, NH 03894**
**Phone: 603-569-4638 Fax: 603-569-8038**

Circle Reader Service #166

## SIDELINE SOFTWARE

**ORDERS 1-800-888-9273 ONLY**

YOUR PC IMPORT & CLOSEOUT CONNECTION

| NEW PC TITLES | TYPE | $ |
|---|---|---|
| Amazon | Adventure | 45 |
| Battle Isle 2 Floppy or CD ROM | War Simulation | 50 |
| Beneath a Steel Sky | Adventure | 45 |
| Canon Fodder | Arcade Strategy | 40 |
| Chaos Engine | Action Arcade | 40 |
| Diggers Floppy or CD ROM | Arcade Strategy | 45 |
| Genesia | Strategy Game | 40 |
| In Extremis | Like "Doom" | 45 |
| Maniac Sports | Sports Simulator | 40 |
| Micro Machines | Racing Arcade | 40 |
| Reunion Floppy or CD ROM | Role Playing Game | 50 |
| Rise of the Robots | Fighting Game | 45 |
| Star Lord (Microprose) | Strategy | 50 |
| UFO (Microprose) floppy or CD ROM | Strategy | 50 |
| Test Drive 3, Star Control, Hoverforce - all THREE for only | | 22 |
| Corporation, F-14 Tomcat, Supremacy - all THREE for only | | 22 |

### PC MAGAZINES

*Get the latest news on the best PC titles from the U.S. & Europe! These high gloss, full color magazines also feature demo-packed PLAYABLE cover DISKS OR CD ROMS with each issue! Titles include: PC Format, PC Review, PC Zone, PC Plus, PC Power, and PC Gamer! Your choice! Only $10 each!*

**SHIPPING** (UPS Ground) For up to 3 pieces, by payment: Mastercard & Visa $5.00 • C.O.D. (Cash Only) $10.00
Next day & second day air available! Call for prices on special shipping. Shipping times not guaranteed. Price & Availability subject to change! No refunds or exchanges. Defective products exchanged with same item. Products warrantied through Sideline. FAX ORDERS CALL (305) 491-6134
Need Info? Call (305) 491-9519 DEALER INQUIRIES INVITED!
840 N.W. 57th Court, Ft. Lauderdale, FL 33309

### DON'T MISS THESE DISCOUNT PC DEALS !

| | | | |
|---|---|---|---|
| Four Crystals of Trazar | 21.95 | Civilization | 21.95 |
| 4-D Sports Boxing | 18.95 | Colossus Bridge 4 | 9.95 |
| A-Train | 26.95 | Colorado | 9.95 |
| Action Stations | 18.95 | Command HQ | 18.95 |
| Ancient Art of War in Skies | 24.95 | Conan the Cimerron | 9.95 |
| Artic Barons | 21.95 | Creepers (Psygnosis) | 18.95 |
| ATAC (Microprose) | 24.95 | Dave Ledbetter Golf (Greens) | 26.95 |
| B-17 Bomber (Microprose) | 24.95 | Deluxe Strip Poker 2 | 18.95 |
| Backgammon | 9.95 | Dune | 18.95 |
| Bard's Tale 3 | 18.95 | El-Fish | 21.95 |
| BAT | 9.95 | Elvira 2 | 14.95 |
| BAT 2 | 21.95 | Epic | 21.95 |
| Battlechess | 18.95 | F16 Falcon | 9.95 |
| Battle Isle | 18.95 | Fire Team 2200 | 9.95 |
| Birds of Prey | 21.95 | First Samurai | 9.95 |
| Bloodwych | 9.95 | Floor 13 | 9.95 |
| Carmen USA Deluxe | 21.95 | Fool's Errand | 16.95 |
| Carrier Command | 9.95 | Global Conquest (Microprose) | 21.95 |
| Carriers at War | 21.95 | Greg Norman Shark Attacl Golf | 9.95 |
| Castles | 16.95 | Harpoon & Battle Set 2 | 18.95 |
| Centurion Defender of Rome | 18.95 | Heart of China | 9.95 |

### DISCOUNT TITLES

| | |
|---|---|
| Hero Quest | 18.95 |
| Hook | 9.95 |
| Ishar, Legend of the Fortress | 18.95 |
| It Came From the Desert | 14.95 |
| Jack Nicholas Greatest 18 | 9.95 |
| Joe and Mac Caveman Ninja | 9.95 |
| Killing Cloud | 9.95 |
| King of Chicago | 9.95 |
| King's Quest 6 | 21.95 |
| Legend of Kyrandia | 21.95 |
| Lemmings 2 | 28.95 |
| Links 386 (Access) | 29.95 |
| Mantis | 24.95 |
| Mavis Beacon Typing Tutor | 9.95 |
| Mike Ditka Football | 18.95 |
| Mig 29 Fulcrum | 18.95 |
| Nigel Mansell's Grand Prix | 21.95 |
| Obitus (Psygnosis) | 9.95 |
| Pacific Islands | 21.95 |
| Populous & Data Disk | 24.95 |
| Power Monger | 19.95 |
| Pushover | 18.95 |
| RBI Baseball 2 | 9.95 |
| Rex Nebular | 24.95 |
| RoboCop 3 | 9.95 |
| Rocket Ranger | 9.95 |
| Sargon 5 | 9.95 |
| Seal Team | 24.95 |
| Secret of Monkey Island 2 | 21.95 |
| Seven Cities of Gold New Ed. | 24.95 |
| Shadowlands | 18.95 |
| Sim Ant | 21.95 |
| Sim Life | 18.95 |
| Sleepwalker | 18.95 |
| Sleeping Gods Lie | 9.95 |
| Space Crusade | 18.95 |
| Spacewrecked | 9.95 |
| Spell Casting 101 | 9.95 |
| Spoils of War (RAW) | 18.95 |
| Star Legions | 21.95 |
| Strike Fleet | 19.95 |
| Super Off Road Racing | 9.95 |
| Super Space Invaders | 14.95 |
| Super Tetris | 14.95 |
| Team Yankee | 21.95 |
| The Immortal | 19.95 |
| The Lost Admiral | 14.95 |
| T.V. Sports Baseball | 21.95 |
| T.V. Sports Boxing | 21.95 |
| Trump Casino 2 | 14.95 |
| Twilight 2000 | 16.95 |
| Ultima 6 | 21.95 |
| Ultima Underworld 2 | 21.95 |
| Utopia | 18.95 |
| V For Victory | 21.95 |
| W.W.F. 2 Wrestling | 18.95 |
| Waxworks | 14.95 |
| White Death (Raw) | 18.95 |
| Wing Commander Academy | 24.95 |
| Wizkid | 18.95 |
| Wolfpack | 9.95 |
| World Class Leaderboard | 9.95 |
| Wrath of the Demon | 16.95 |
| Zool | 21.95 |

Circle Reader Service #107

# Give Your Joystick a Thrill.

In the early 21st century, staged fighting has become a lucrative profession for female hardbodies, with dozens of legal arenas in the city. But for the leanest, meanest warriors, the real money comes from the illegal bouts held outside the city. It's the hottest day of the summer and you're baking inside a dilapidated warehouse. You — and your opponent — wear the latest in MECHA armor. The best fighting armor in the world.

# METAL & LACE

## THE BATTLE OF THE ROBO BABES

This won't be any picnic. With the intense heat and action, you'll both end up in less than full body dress.

It's dream babes in heavy armor battling for prize money — action packed, arcade style fun for your PC. But be warned — with its intense violence and voluptuous women, Metal & Lace: Battle Of The Robo Babes is for mature audiences only. And not for the faint hearted. Available now at your nearest dealer or call **1-800-258-MEGA.** Or write Megatech, P.O. Box 11333, Torrance, CA 90510. Visa, Mastercard, checks accepted.







System requirements: 286-20 or faster machine (386 recommended) with 640K RAM, hard disk, joystick recommended. Operating Sys.: MS DOS 3.3 or above, Windows 3.1. Graphics compatible with VGA. Sound support: Sound Blaster, Sound Blaster Pro, Thunder Board, Pro Audio Spectrum , Adlib Gold and Speed Master.

**NR-13** This game is not for the faint-hearted. Contains violence and some material inappropriate for minors.

NOT RECOMMENDED FOR PLAYERS UNDER 13.

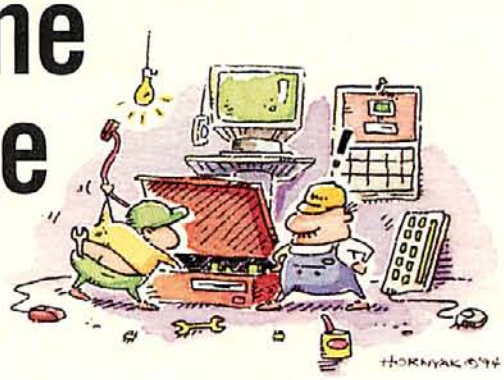
For a free demo, call our 24hr. BBS at 310-539-7739. (8N1)

MEGATECH

All companies and product names mentioned are trademarks or registered trademarks of the respective owners.

Circle Reader Service #86

# Free Digital Lube & Tune At The Gigabyte Garage



*CGW's Technical Editor visits Chicago in Seattle and hangs out with several "scuzzy" peripherals.*

**by Mike Weksler**

*Like Icarus, do you find your silicon wings melting as you fly too close to the multimedia sun? Here's the place for technically troubled heroes like yourself to find the aid you need. If there's an answer to your technical dilemma, you'll find it here.*

### THE WILD WILD WORLD OF WINDOWS

**I just read about Windows 4.0 (Chicago) in *PC Computing* magazine. To be honest, I'm a little panicked! Running games in Windows? Am I wrong, or does Windows throw off timing in most games? And since 4.0 will be an operating system, we won't be able to exit to DOS to run our games, will we?**

**Basically, what does Windows 4.0 hold for us game junkies?**

*Mark Fossen, CompuServe user*

OK. First, Windows 3.1 is run as an add-on for DOS. It's 16-bit, kludgy and slow. Chicago will be a complete operating system and will use WinG, a 32-bit graphics Dynamic Link Library (DLL) which approaches DOS speed in terms of game performance. Additionally, the operating system will have support for joysticks, networks and modems. You will not have DOS on your system (no more CONFIG.SYS and AUTOEXEC.BAT), but you will be able to run DOS in a "box" within Chicago. Games can run right from the command line with 600K+ available.

How will this affect next generation games? First, game developers can spend more time writing games and not drivers (hardware vendors will do the driver part), and conform to some kind of standard for installation. This is all very welcome in an industry that can't standardize a box label let alone software drivers.

Developers at Microsoft have told me that you won't be able to "dual boot" between DOS and Chicago in the manner that you can with Windows NT.

The full potential of Chicago won't be realized until there are 32-bit games that have been written to run under Chicago in native mode. To this end, WinG is the key. This 32-bit DLL will allow game developers to write graphics routines for Chicago and 3.1 (in 16-bit) that are comparable to DOS graphic performance. I was quite skeptical until I saw and played DOOM in Windows on a 486DX2/66 at the Computer Game Developers Conference. The screen was even scalable: I could stretch the window to 640x480 and then render the game to fit the screen. The result is high res DOOM. Too cool. (For more news about Chicago, see READ.ME next month).

### TWO WILD AND CRAZY SPACE MARINES

**Is there some bug in DOOM version 1.2 that makes your character wildly run around and shoot? This annoying "problem" has no pattern. Is this a bug and, if it is, is there a fix to this?**

*Dale Ghent, Middletown, MD*

The way I play DOOM, I wouldn't really notice<g>. Seriously, the "feature" you mention is a bug identified by id Software and should be fixed in version 1.4. The patch will also include fixes for Gravis UltraSound problems. Look for it on a BBS in June.

### A TALE OF TWO SCSIS

**I recently purchased a Media Vision multimedia upgrade kit that came with a SCSI CD-ROM drive and a SCSI CD host on the sound card. I already have an Adaptec SCSI host running my Maxtor SCSI hard drive. Should I 1) disable the SCSI adapter on the sound card and run everything on my Adaptec SCSI host, 2) hook up my CD-ROM to my sound card and leave my hard drive on the other Adaptec SCSI host, or 3) should I run everything from my sound card and remove my Adaptec SCSI host from my machine?**

**Can you have two SCSI chains running in the same computer?**

*Jerry Lambright, West Covina, CA*

At first glance, I would recommend disabling the SCSI host on the sound card and slinging your new CD-ROM drive onto the Adaptec. You will most likely need a new ribbon cable designed for two peripherals to accomplish this. The disadvantage of doing this is that with your Adaptec SCSI host, you need two drivers in your CONFIG.SYS file—ASPI2DOS.SYS and ASPICD.SYS. These are in addition to the MSCDEX.EXE file loaded into the AUTOEXEC.BAT. One nice thing about this setup, despite the added driver overhead, is the ability to have your sound card free to swap in and out with others without worrying about the CD-ROM drive. If you're not willing to do some major memory mambo to get a game running, I would run the SCSI hard drive off of the Adaptec (you can run up to two hard drives without any CONFIG.SYS drivers), and run the CD-ROM off of the Media Vision card which will only use one SYS driver for the CD-ROM. OK, so if you're still with me, you're probably asking "why can't I just hook up my SCSI hard drive and my CD-ROM to my Media Vision SCSI sound card?" Well, the answer is that you can, but since your SCSI sound cards don't have this thing called a "boot ROM," your hard drive will run, but you won't be able to boot your system without a boot disk.

*Why don't you share your technical adventures with your fellow CGW readers who may have the same problems? Send your questions to Under The Hood, c/o Computer Gaming World, 130 Chaparral Ct. Suite 260, Anaheim Hills, CA 92808, or Internet email at 76703.622@compuserve.com.*

# THE MARKETPLACE

*Call your Account Representative, Marci Yamaguchi, at (714) 283-3000 x37 for information on how you can advertise your game, product or service in the economical MARKETPLACE section.*




**Games Too Expensive?**
Consider Pre-owned Software

- Save big $$$ over new
- Original disks and manuals
- IBM - AMIGA - C64
- Hard-to-find classics plus all the latest releases
- Call or write for free catalog (specify computer)

**Bare Bones Software**
940 4th Ave #222 Huntington WV 25701
**1-800-638-1123**
Customer Service: 304-529-0461
BBS for complete list: 304-529-7050

Reader Service #45



**CARMACON**
450 Oak Street, Palmerton, PA 18071
**Presents:**
Herman's Second Adventure,
a powerful and challenging logic-maze game, offering:

- Colorful Screen Designs
- 24 Playing Levels
- Sound Board Support
- Records Best Times
- Saves High Scores

Uses Windows™ *

* Windows is a registered trademark of Microsoft Corp.

Reader Service #189

**PAPER MAYHEM**
"The Informative PBM Magazine"

Do you know what PBM (Play-By-Mail) gaming is? If you don't, we can help you explore the world of PBM gaming. Paper Mayhem has been leading the way for over 10 years by informing people about PBM gaming. Articles, reviews, biographies, PBM game & company ratings and more fill each issue.

Paper Mayhem has been improving with the ever expanding hobby of PBM gaming since 1983. Each bimonthly issue brings you the latest on PBM news.

So why delay and miss out on all the fun?

**PAPER MAYHEM**
**Dept CG, 1518 Adams St.**
**Ottawa, IL 61350-4770**
US Subscriptions: Single issue $5.00
1 year $24.00 - 2 year $42.00
FOREIGN SUBSCRIPTIONS: Please inquire for rates.

Reader Service #101

**Introducing the Cybership™**

**Encapsulated Computing Enviroment.**
An affordable virtual reality system for your home computer. Enhances the realism of games & simulators. Why do your computing at a desk when you can relax inside the comfortable cockpit of your own Cybership? Inexpensive. Easy to build. Fun to use. For detailed plans & instructions that include provisions for a built-in stereo system, and controllers send $26.95 to:

**Cybership Systems**
P.O. Box 166
Cottage Grove, MN 55016 (612) 768-0326

Reader Service #59

**FREE Software!**
**FREE Hardware!**

Become a Beta Tester! It's easy! Companies can't afford to pay employees to play games all day in search of programming errors. They need you to test their newest games and hardware. You can keep what you test **Free!** For a complete information package on becoming a Beta Tester send $9.95 + $3.95 S/H to:



**CCB Enterprises**
**PO Box 336**
**Saint Marys, GA**
**31558**



Reader Service #52

**The NEW CAPE COD CONNECTION ELECTRONIC SHOPPING MALL**

Our BBS is back - 24 HOUR Electronic On-Line Shopping is available. • Download our complete new & used Software, Tabletop & Sports Apparel Catalogs, updated daily with new products. • On-Line Ordering 24 Hours • One of the largest used software listing available today. Have us sell your used software on consignment.

Robert Berry, Proprietor
21 PLEASANT VIEW AVENUE • FALMOUTH, MA 02540

**BBS 508-548-2908 ■ HELP 508-457-0738**
**24 HOUR FAX 508-457-4558**

Reader Service #50



MasterCard/Visa
1-800-545-6172
(after 5 p.m.)

**"Powerful programs of growth and adventure"**

MAGIC MIRROR I . . . a toolbox for your mind. E. Kinnie, PhD., Clinical Psychologist, $39.95.

MAGIC MIRROR II . . . experiences for your mind, $39.95.

THREE GATES . . . skryeing, awareness shifting, I Ching and runes, $39.95.

MERLIN . . . an apprenticeship, $29.95.

PHOENIX FIRE . . . high-tech Ouija Board, $39.95.

MAGIC MOUNTAIN . . . weird adventure, male and female versions, not for children, $39.95.

**Blue Valley,** 29 Shepard St., Walton, NY 13856

Reader Service #48

# ADVERTISER Game and Product Index

| INFO # | PRODUCT | COMPANY | PAGE |
|---|---|---|---|
| 150 | Across the Rhine | MicroProse | 109 |
| 183 | Bill Cosby's Picture Pages | Take 2 Interactive | 81 |
| 115 | Computer and Video Products | Spectrum Electronics | 138 |
| 179 | Contest | Quantum Quality Products | 126 |
| 51 | Corridor 7 | Capstone Software | 71 |
| 167 | CyberMall | InfoNow | 14 |
| 67 | Cyberstrike | G.E. Information Systems | 65 |
| 76 | D - Day | Impressions Software, Inc. | 27 |
| 47 | DeltaV | Bethesda Softworks | 4, 5 |
| 65 | Disciples of Steel | FormGen Corporation | 127 |
| 71 | Doom | ID Software | Cover 3 |
| 90 | Dragonsphere | MicroProse | 2, 3 |
| 50 | Electronic Shopping Mall BBS | Cape Cod Connection | 147 |
| 152 | Empire Deluxe Master | New World Computing | 106 |
| 137 | Empire Soccer | Empire Software | 157 |
| * | Epic Pinball | Epic Mega Games | 13 |
| 80 | Falcon & MIG Commander | Keyboard Commander Corp. | 94 |
| 141 | Falcon MACH V | Falcon Northwest | 9 |
| * | Flight Simulator | Microsoft | 48, 49 |
| 190 | Flight Stick Pro, Virtual Pilot, Flightstick, Jetstick | CH Products | 29 |
| 182 | Flightmax | Suncom Technologies | 105 |
| 181 | Front Page Sports: Baseball | Sierra Dynamix | 97-100 |
| 39 | Game Zapper | Advanced Digital Systems | 137 |
| 131 | Gameblaster | Creative Labs | 123 |
| 169 | Games Master | Keyboard & Terminal Technology | 86 |
| 81 | Genghis Khan II | Koei | 131 |
| 42 | Girlfriend | Aidea Labs | 138 |
| 48 | Growth and Adventure Sw. | Blue Valley | 147 |
| 88 | Harvester | Merit Software | 165 |
| 189 | Herman's Second Adventure | Carmacon | 147 |
| 177 | Hex: Heresy of the Wizard | Psygnosis | 125 |
| 60 | Hollywood Mogul | DeVuono DeVuono Games | 1 |
| 153 | Indy Car Racing and Expansion Packs | Papyrus | 87 |
| 102 | Jump Raven | Paramount Interactive | 47 |
| 192 | Lord of Realm | Impressions Software, Inc. | 23 |
| 77 | Lord of Realm | Impressions Software, Inc. | 25 |
| 132 | Lords of Midnight | Domark Software | 15 |
| 93 | Mail Order | Mission Control | 152, 153 |
| 61 | Mail Order Peripherals | Direct Wave | 104 |
| 52 | Mail Order Products | CCB Enterprise | 147 |
| 54 | Mail Order Products | Chips & Bits | 54 - 63 |
| 56 | Mail Order Products | Computer Express | 72 - 77 |
| 59 | Mail Order Products | Cybership | 147 |
| 69 | Mail Order Products | Gosselin Computer Consultants | 104 |
| 94 | Mail Order Products | Multimedia Specialists | 139 |
| 107 | Mail Order Products | Sideline Software | 144 |
| 68 | Mail Order Software | Gamer's Gold | 155 |
| 160 | Mail Order Software | S Software | 142 |
| 86 | Metal & Lace | Megatech | 145 |
| 155 | Microcosm | Psygnosis | 50, 51 |
| 126 | Microforum Family of Products | Microforum | 90, 91 |
| 188 | Multimedia Upgrade Kit | Aztech Labs, Inc | 43 |
| 95 | NVN | National Videotex Network | 135 |
| 44 | Operation Crusader | Avalon Hill | 129 |
| 111 | Outpost | Sierra On-Line | 32, 33 |
| 63 | Oxyd Magnum | Dongleware | 121 |
| 101 | PBM Magazine | Paper Mayhem | 147 |
| 168 | PC Pedals | Interactive Digital Devices | 69 |
| 173 | Pirates Gold MAC | MicroProse | 45 |
| 45 | Pre-owned Software | Bare Bones Software | 147 |
| 89 | Pro League Baseball | Micro Sports, Inc. | 119 |
| 43 | Raptor | Apogee Software | 11 |
| 128 | Reel Magic Lite | Sigma Designs, Inc. | 41 |
| 186 | Return to Ringworld | Time Warner Interactive | 37 |
| 55 | Robinson's Requiem | Chips & Bits | 39 |
| * | Skyrealms of Jorune: Alien L | Strategic Simulations, Inc. | 34 |
| 191 | Soundscape | Ensoniq | 67 |
| * | Space Simulator | Microsoft | 30, 31 |
| 143 | Spear of Destiny Mission Disks | FormGen Corporation | Cover 2 |
| 164 | Sprint | Sierra Direct | 141 |
| 184 | Star Crusader | Take 2 Interactive | 82, 83 |
| * | Star Wars Screen Entertainment | LucasArts Entertainment | 70 |
| 180 | Strategy | Quantum Quality Products | 116 |
| 99 | System Shock | Origin Systems | Cover 4 |
| 97 | TFX | Oceans of America | 78 |
| 119 | The Infinity Machine | REM Software | 142 |
| 166 | Thrustmaster Support Brackets | Interface Dynamics | 144 |
| 185 | ThunderSeat | ThunderSeat Technologies | 103 |
| * | Tigers on the Prowl | HPS Simulations | 132 |
| 159 | Train Engineer | Abracadata, Ltd. | 44 |
| 117 | Try A Titan | Titan Games | 117 |
| 112 | TV Gamer Plus | SIIG | 159 |
| 113 | Universal Cockpit & Joystick | Simulation Systems | 96 |
| 187 | Utah Beach Battlebook | Arsenal | 108 |
| 172 | World Circuit - CD Rom | MicroProse | 95 |
| 171 | X-Com | MicroProse | 115 |
| 151 | Zephyr | New World Computing | 93 |

* *Please see advertisement for contact information.*

# Top 10
## Reasons To Subscribe To CGW

10 You won't miss an issue.

9 Save almost $20 a year off the newsstand price.

8 Stay on top of the latest game releases.

7 Receive something in the mail you actually *want*.

6 Get your copy up to two weeks before newsstand readers.

5 Save money by not buying any more *lame games*!

4 Destroy and humiliate your opponents with stunning regularity with our strategy tips.

3 Be the games guru on your block.

2 Doing wrist curls with back issues will build your arms.

1 A person of your stature should have things hand-delivered.

Free Gaming Information

COMPUTER GAMING WORLD

47% SAVINGS &
FREE SOFTWARE!

☐ 1 year (12 issues) $27.94
SAVE 41%.
☐ 2 years (24 issues) $49.97
SAVE 47%
☐ Payment enclosed.
☐ Bill me later.

Name (Please Print) 4SAL5

Company

Address

City State Zip

Subscribe now and save 47% off newsstands! Plus, get your FREE Pro Tips Gaming Secrets disk — an unbeatable collection of hints and clues for winning your favorite and most challenging games, including X-WING and Return to Zork. Mail this card today!

Basic one-year subscription price $28.00; on newsstands $47.40. Canada and foreign add $11.00 per year. U.S. funds only. Canadian GST included. Please allow 30 days for shipment of first issue. FREE software will be sent upon payment.

Free Product Information

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

**BUSINESS REPLY MAIL**
FIRST-CLASS MAIL PERMIT NO. 768 RIVERTON, NJ

POSTAGE WILL BE PAID BY THE ADDRESSEE

COMPUTER GAMING WORLD
PO BOX 1851
RIVERTON NJ 08077-9451

### COMPUTER GAMING WORLD FREE READER INQUIRY SERVICE

Let us forward your request for futher information you'd like to receive on products or services mentioned in CGW.

Name _____

Address _____

City, State, Zip _____

Information must be furnished completely to be processed.

I own...(please circle all that apply)
..... an IBM (or compatible) A
..... an Amiga B
..... a Macintosh C
..... another home computer D
..... a dedicated game machine E
I have one or more children of the ages...
..... 3-5 years F
..... 6-10 years G
..... 11-16 years H

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 |
| 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 |
| 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |
| 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 |
| 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 |
| 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
| 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 |
| 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 |

**July 1994 Issue**
**Do not mail after September 30, 1994**

Circle #203 for renewal (bill me $27.94)

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

**BUSINESS REPLY MAIL**
FIRST CLASS MAIL PERMIT NO. 66 BOULDER, CO

POSTAGE WILL BE PAID BY ADDRESSEE

**COMPUTER GAMING WORLD**
P.O. Box 57166
Boulder, CO 80321-7166

**Subscribe to Computer Gaming World**

## COMPUTER GAMING WORLD FREE READER INQUIRY SERVICE

Let us forward your request for further information you'd like to receive on products or services mentioned in CGW.

Name _____

Address _____

City, State, Zip _____

Information must be furnished completely to be processed.

I own...(please circle all that apply)

| | |
|---|---|
| .....an IBM (or compatible) | A |
| .....an Amiga | B |
| .....a Macintosh | C |
| .....another home computer | D |
| .....a dedicated game machine | E |
| I have one or more children of the ages... | |
| .....3-5 years | F |
| .....6-10 years | G |
| .....11-16 years | H |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 |
| 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 |
| 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |
| 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 |
| 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 |
| 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
| 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 |
| 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 |

**July 1994 Issue**
**Do not mail after September 30, 1994**

Circle #203 for renewal (bill me $27.94)
Circle #204 for new subscription (bill me $27.94)

**Free Gaming Information**

**Free Product Information**

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

**BUSINESS REPLY MAIL**
FIRST-CLASS MAIL PERMIT NO. 768 RIVERTON, NJ

POSTAGE WILL BE PAID BY THE ADDRESSEE

**COMPUTER GAMING WORLD**
**PO BOX 1851**
**RIVERTON NJ 08077-9451**

# ADVERTISER Company and Phone Index

| INFO. # | COMPANY | PHONE NUMBER | PAGE |
|---|---|---|---|
| 159 | Abracadata, Ltd. | (800) 451-4871 | 44 |
| 39 | Advanced Digital Systems | (800) 888 5244 | 137 |
| 42 | Aidea Labs | (214) 235-4999 | 138 |
| 43 | Apogee Software | (800) gam-e123 | 11 |
| 187 | Arsenal | (800) 247-1877 | 108 |
| 44 | Avalon Hill | (800) 999-3222 | 129 |
| 188 | Aztech Labs, Inc | (800) 781-1188 | 43 |
| 45 | Bare Bones Software | (800) 638-1123 | 147 |
| 47 | Bethesda Softworks | (800) 677-0700 | 4,5 |
| 48 | Blue Valley | (800) 545-6172 | 147 |
| 50 | Cape Cod Connection | (508) 548-2908 | 147 |
| 51 | Capstone Software | (800) 468-7226 | 71 |
| 189 | Carmacon | * | 147 |
| 52 | CCB Enterprise | (508) 548-2908 | 147 |
| 190 | CH Products | (619) 598-2518 | 29 |
| 54 | Chips & Bits | (800) 699-4263 | 54-63 |
| 54 | Chips & Bits | (800) 699-4263 | 39 |
| 56 | Computer Express | (800) 228-7449 | 72-77 |
| 131 | Creative Labs | (800) 998-5227 | 123 |
| 59 | Cybership | (612) 768-0326 | 147 |
| 60 | DeVuono DeVuono Games | (800) 350-5550 | 1 |
| 61 | DirectWave | (800) 882-8108 | 104 |
| 132 | Domark Software | (800) 695-play | 15 |
| 63 | Dongleware | (617) 497-1130 | 121 |
| 137 | Empire Software | (800) 216-9706 | 157 |
| 191 | Ensoniq | (800) 942-0096 | 67 |
| * | Epic Mega Games | (800) 972-7434 | 13 |
| 141 | Falcon Northwest | (800) 258-6778 | 9 |
| 143 | FormGen Corporation | (800) 263-2390 | Cover 2 |
| 65 | FormGen Corporation | (800) 263-2390 | 127 |
| 67 | G.E. Information Systems | (800) 638-8369 | 65 |
| 68 | Gamer's Gold | (800) 337-8578 | 155 |
| 69 | Gosselin Computer Consultants | (313) 229-2453 | 104 |
| * | HPS Simulations | (408) 554-8381 | 132 |
| 71 | ID Software | (800) 661-7383 | Cover 3 |
| 192 | Impressions Software Inc | (617) 225-0848 | 23 |
| 77 | Impressions Software Inc. | (617) 225-0848 | 25 |
| 76 | Impressions Software Inc. | (617) 225-0848 | 27 |
| 167 | InfoNow | (800) 914-GAME (4263) | 14 |
| 168 | Interactive Digital Devices | (602) 940-0340 | 69 |
| 166 | Interface Dynamics | (603) 569-4638 | 144 |
| 169 | Keyboard & Terminal Technology | (908) 297-5399 | 86 |
| 80 | Keyboard Commander Corp. | (800) 228-7449 | 94 |
| 81 | Koei | (415) 348-0500 | 131 |

| INFO. # | COMPANY | PHONE NUMBER | PAGE |
|---|---|---|---|
| * | LucasArts Entertainment | (800)STA-RWARS | 70 |
| 86 | Megatech | (310) 539-7739 | 145 |
| 88 | Merit Software | (800) 238-4277 | 165 |
| 89 | Micro Sports, Inc. | (800) 937-7737 | 119 |
| 126 | Microforum | (800) 465-2323 | 90,91 |
| 150 | MicroProse | (800) 879-play | 109 |
| 171 | MicroProse | (800) 879-play | 115 |
| 172 | MicroProse | (800) 879-play | 95 |
| 90 | MicroProse | (800) 879-play | 2,3 |
| 173 | MicroProse | (800) 879-play | 45 |
| * | Microsoft | (800) 426-9400 | 30,31 |
| * | Microsoft | (800) 426-9400 | 48,49 |
| 93 | Mission Control | (800) 999-7995 | 152,153 |
| 94 | Multimedia Specialists | (800) 233-0010 | 139 |
| 95 | National Videotex Network | (800) 336-9096 | 135 |
| 151 | New World Computing | (800) 325-8898 | 93 |
| 152 | New World Computing | (800) 325-8898 | 106 |
| 176 | Oceans of America | (408) 954-0201 | 78 |
| 99 | Origin Systems | (800) 756-8766 | Cover 4 |
| 101 | Paper Mayhem | (815) 433-2047 | 147 |
| 153 | Papyrus | (617) 868-3103 | 87 |
| 102 | Paramount Interactive | (415) 813-8040 | 47 |
| 177 | Psygnosis | (617) 497-7794 | 125 |
| 155 | Psygnosis | (617)497-7794 | 50,51 |
| 179 | Quantum Quality Products | (908) 788-2799 | 126 |
| 180 | Quantum Quality Products | (908) 788-2799 | 116 |
| 119 | REM Software | (313) 457-1161 | 142 |
| 160 | S Software | (800) 243-1515 | 142 |
| 107 | Sideline Software | (800) 888-9273 | 144 |
| 164 | Sierra Direct | (800) 795-5979 | 141 |
| 181 | Sierra Dynamix | (800) 757-7707 | 97-100 |
| 111 | Sierra On-Line | (800) 757-7707 | 32,33 |
| 128 | Sigma Designs, Inc. | (800) 845-8086 | 41 |
| 112 | SIIG | (510) 657-8688 | 159 |
| 113 | Simulation Systems | (800) 647-7623 | 96 |
| 115 | Spectrum Electronics | (800) 983-4321 | 138 |
| * | Strategic Simulations, Inc. | (800) 245-4525 | 34 |
| 182 | Suncom Technologies | (708) 647-4040 | 105 |
| 183 | Take 2 Interactive | * | 81 |
| 184 | Take 2 Interactive | * | 82,83 |
| 185 | ThunderSeat Technologies | (800) 8-THUNDER | 103 |
| 186 | Time Warner Interactive | (800) 482-3766 | 37 |
| 117 | Titan Games | (800) 249-5447 | 117 |

* *Please see advertisement for contact information*

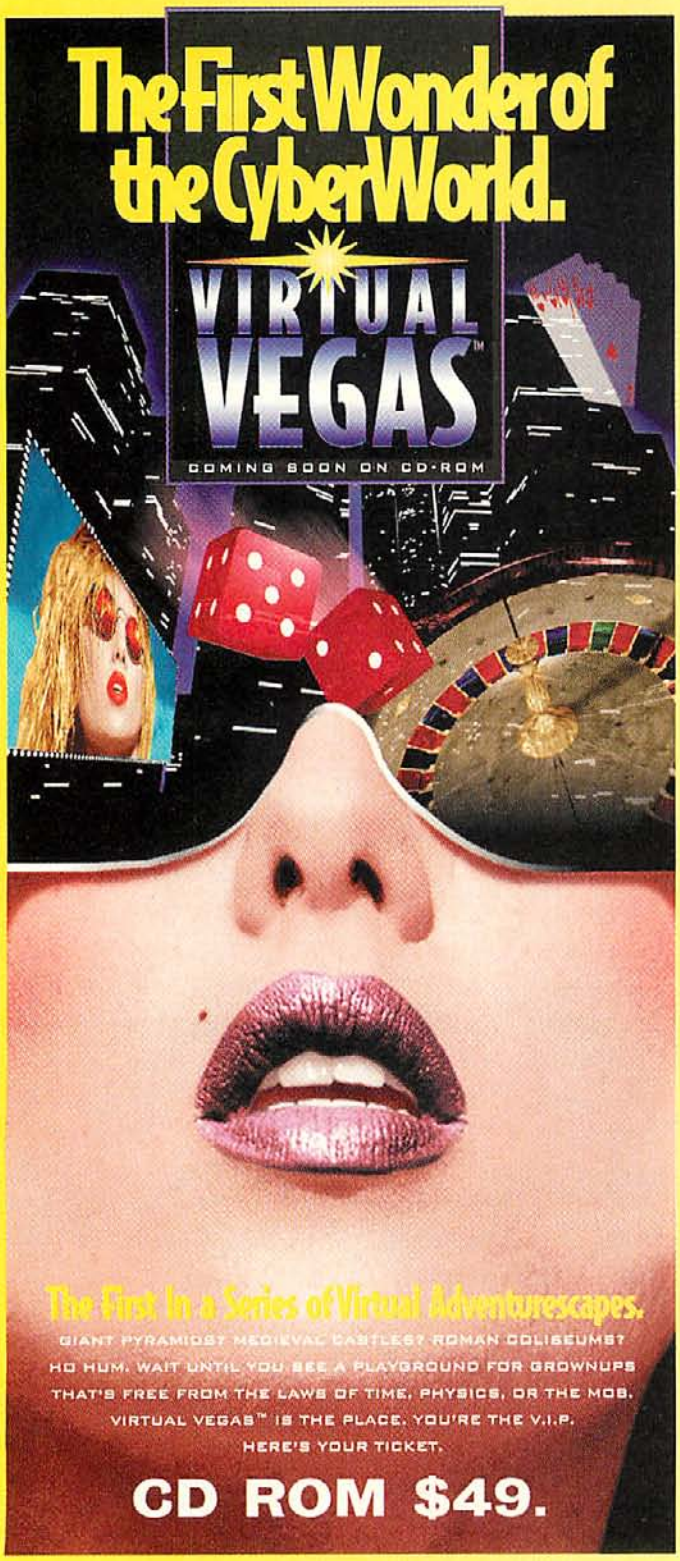
FEATURED PRODUCTS

# MISSION CONTROL

## FREE SHIPPING!

**ON ALL U.S. ORDERS OVER $50.**
**VIA UPS GROUND WITH COUPON.**

## (800) 999-7995




### AMERICAN DATA BANKERS PRESENTS:




**SOFTWARE VAULT PLATINUM**

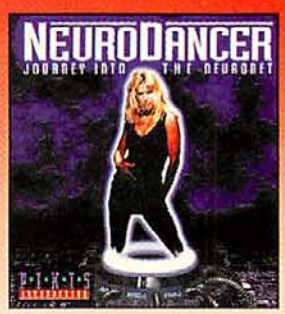
Platinum Collection is the sixth and latest CD ROM treasure. Includes: Games, Windows Based Apps, Windows NT Based Apps, Multimedia, Graphics, Sounds, Desktop Publish-ing, Word Processing, Pictures and GIF's, Fonts and Clip Art, Virus Protection, Educational, Business, . . .and much more. **$34**

Also Available:
Windows Collection, Games Collection
Gold Collection
**$34. each or 3 for $89.**

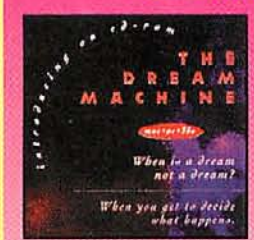
### PIXIS INTERACTIVE FEATURING THE "TFUI" INTERFACE

**NEURODANCER**

Roam the NeuroNET by hacking into the forbidden worlds of dark mysteries, danger. Use your computer and VidFone to obtain enough credits to view the exotic Neurodancers who roam the computer networks in search of will-ing viewers. Featuring 3D animation, interactive game-play, and live motion video. Requires: 486, SVGA, 4 MB of Hard Disk, 8 Mb RAM.
CD ROM **$69.**




### NEW MACHINE PRESENTS!




**DREAM MACHINE**

The most innovative CD ever! Navigate through a 3D world where your ulti-mate fantasies come alive. The Dream Machine's beautiful hostess will lead you on an interactive journey through your imagination. The only CD that adapts to your choices. As seen on Donahue, Joan Rivers and CNN.

CD ROM **$69.**

**ORUTSUKIDOJI**

Is there any hope for humanity? Will the Legend of the Overfiend become reality? From the animation geniuses who created Space Cruiser Yamato, this is the astounding and controver-sial theatrical masterpiece which sin-glehandedly launched a whole new genre of Japanese animation. Definetely not for children.

CD ROM **$49.**




**CALL US AND USE YOUR MC, VISA OR DISCOVER • 800-999-7995**

# CD ROM CENTRAL

## GAMES

| | |
|---|---|
| 7th Guest 2 The 11th Hour | 69 |
| 7th Guest | 43 |
| Al Qadim Genie's Curse | 45 |
| AD&D Dungeon Hack | 40 |
| AD&D Fantasy Empires | 45 |
| AD&D Ravenloft | 54 |
| Aegis Guardian of the Fleet | 53 |
| Air Warrior | 29 |
| Alone In the Dark | 52 |
| Armored Fist | 45 |
| Arthur's Teacher Trouble | 40 |
| Astrology Source | 52 |
| Backroad Racer | 35 |
| Battlechess Enhanced | 29 |
| Betrayal at Krondor | 29 |
| Bible Library | 39 |
| Blood Net | 50 |
| Comanche | 62 |
| Critical Path | 52 |
| Daemonsgate | 34 |
| Dark Legions | 40 |
| Dark Sun Shattered Lands | 54 |
| DarkSeed | 45 |
| Dracula Unleashed | 52 |
| Dragonsphere | 54 |
| Eye of Beholder 1,2,3 | 54 |
| F15 Strike Eagle 3 | 32 |
| Fatty Bear Birthd Surprise | 45 |
| Fatty Bear's Fun Pack | 30 |
| Fingers for Windows | 30 |
| Flight Light Plus | 32 |
| Flight Sim Toolkit | 57 |
| Gabriel Knight | 50 |
| Global Explorer | 89 |
| Great Naval Battles 2 | 45 |
| Great Naval Battles | 54 |
| Grollers Encyclopedia 6 | 79 |
| Hell Cab | 63 |
| Inca 2 | 25 |
| Inca | 30 |
| Interplay's Collection | 47 |
| Iron Helix | 62 |
| Just Grandma and Me | 37 |
| King's Quest 6 | 27 |
| Labyrinth of Time | 52 |
| Lands of Lore | 43 |
| Lawnmower Man | 43 |
| Learn Fly Fishing | 37 |
| Lord of the Rings | 47 |
| Lost In Time | 45 |
| Man Enough | 50 |
| Mayo Clinic Rom | 43 |
| Mayo Clinic Total Heart | 40 |
| Mechamander | 47 |
| MM2 Day of Tentacle | 30 |
| Myst | 62 |
| Pacific Strike | 52 |
| Privateer | 60 |
| Putt Putt Goes to Moon | 47 |
| Putt Putt Joins Parade | 39 |
| Putt Putt's Fun Pack | 39 |
| Rebel Assault | 52 |
| Return to Zork | 29 |
| Sam & Max | 42 |
| Scooter's Magic Castle | 30 |
| Scrabble Deluxe | 35 |
| Shadowcaster | 47 |
| Sim City | 50 |
| Small Blue Planet | 49 |
| Space Hulk | 45 |
| Star Trek 25th | 60 |
| Street Atlas USA | 88 |
| Strike Commander | 58 |
| Syndicate | 45 |
| TFX | 45 |
| The Complete Ultima VII Bundle | 45 |
| The Horde | 52 |
| The Journeyman Project | 47 |
| The Tortoise & The Hare | 40 |
| Theme Park | 52 |
| Tony LaRussa 2 | 50 |
| Ultima Underworld 1 & 2 | 59 |
| Ultima VIII Pagan | 52 |
| Under a Killing Moon | 58 |
| Who Shot Johnny Rock ? | 42 |
| Wing Command & Ultima 6 | 39 |
| Wing Commander 2 Dlx | 34 |
| Wing Commander Dlx | 34 |
| WolfPack | 38 |
| World Circuit Grand Prix | 45 |
| World of Xeen | 47 |
| Wrath of the Gods | 47 |

## ADULT PHOTO CD

| | |
|---|---|
| 3D Darlings | 44 |
| 3D DreamGirls | 44 |
| Adult Palate Vol. 1 | 29 |
| Adult Reference Library | 39 |
| Amateur Models 2 | 39 |
| American Girls | 39 |
| Asian Ladies | 44 |
| Asian Palate | 29 |
| Bodacious Beauties | 44 |
| Busty Babes 2 | 44 |
| Double Play 1 | 59 |
| Girls In Vivid | 29 |
| Girls of J. Stephen Hicks | 29 |
| Girls of Risque | 44 |
| High Volume Nudes | 39 |
| Hot Bodies | 39 |
| Hot Hunks | 59 |
| Hot Peppers | 44 |
| Local Girls 3 In 1 | 44 |
| Northern Delights | 44 |
| Sizzle | 39 |
| Southern Beauties | 44 |
| Super Smutware Vol. II | 44 |
| Sweet Dreams Stills | 39 |
| Taste of Erotica Sampler 2 | 14 |
| Tropical Girls 3 In 1 | 39 |
| Venus Model Search 93/94 | 44 |
| Women on Wheels | 44 |

## INTERACTIVE

| | |
|---|---|
| Adult Movie Almanac | 69 |
| 101 Sexual Positions | 39 |
| 101 Sexual Positions 2 | 39 |
| Adult Movie Almanac | 69 |
| Adult Sampler | 14 |
| Adventures Seymore Butts | 69 |
| Adventures Seymore Butts 2 | 69 |
| Buttman's Euro Vacation | 39 |
| Condo Cuties | 44 |
| Digital Dancing | 39 |
| Dirty Debutantes | 59 |
| Doors of Passion | 69 |
| Dream Girl | 44 |
| Dream Machine | 69 |
| Hot Wire: High Society Mag | 59 |
| Maddam's Family | 49 |
| Massive Melons | 49 |
| NeuroDancer | 69 |
| Night Watch | 69 |
| Nightwatch 2 | 69 |
| Pixis Adult Sampler | 14 |
| Scissors N Stones | 69 |
| Virgins | 49 |
| Virtual Vixens | 79 |
| Winner Take All | 49 |

## MOVIES

| | |
|---|---|
| Amorous Asian Girls | 49 |
| Art Of Picking Up Girls | 39 |
| Baby's Got Butt | 29 |
| Best of Inferno | 29 |
| Best of Vivid | 29 |
| Betrayal | 29 |
| Bikini Beach | 39 |
| Blonde Justice | 29 |
| Busting Out | 29 |
| Cafe Flesh | 29 |
| College Girls | 39 |
| Coven | 29 |
| Erotica | 39 |
| Girls of Mardi Gras | 29 |
| Hidden Obsessions | 29 |
| House of Dreams | 29 |
| House of Sleeping Beauties | 29 |
| Insatiable | 29 |
| Kama Sutra | 34 |
| Legends of Porn II | 29 |
| Mask | 29 |
| Mystique of Orient | 29 |
| New Wave Hookers II | 29 |
| Pinch of Pepper | 39 |
| Princess of Persia | 39 |
| Racquel Released | 39 |
| RainWomen | 39 |
| Steamy Windows | 29 |
| Super Models Go Wild | 49 |
| The Barlow Affair | 29 |
| Traci I Love You | 29 |
| Wicked | 39 |
| Wicked Whispers | 39 |
| Mystique of Orient | 39 |
| New Wave Hookers I or II | 29 |
| Night Trips | 29 |
| Pinch of Pepper | 59 |
| Princess of Persia | 39 |
| Racquel Released | 44 |
| RainWomen | 59 |
| Secrets | 39 |
| Super Models Go Wild | 49 |
| The Barlow Affair | 29 |
| Traci I Love You | 39 |
| Wicked | 39 |
| Wicked Whispers | 39 |

**New Machine Adult Sampler $14.**

## IBM DISK GAMES

| | |
|---|---|
| Aces of the Deep | 43 |
| Aces Over Europe | 43 |
| Across the Rhine | 47 |
| Al Qadim Genie's Curse | 45 |
| AD&D Fantasy Empire | 40 |
| AD&D Ravenloft | 50 |
| Air Warrior | 37 |
| Alone in the Dark 2 | 37 |
| Arborea II | 32 |
| Armored Fist | 45 |
| Beneath A Steel Sky | 40 |
| Betrayal at Krondor | 43 |
| BioForge | 52 |
| Buzz Aldrin's In Space | 34 |
| Carriers at War 2 | 43 |
| Champions | 37 |
| Cobra Mission | 40 |
| Comanche Bundle | 45 |
| Comanche Mission 2 | 35 |
| Corridor 7 | 30 |
| Cyber GO | 40 |
| Daemonsgate | 34 |
| Dark Legions | 40 |
| Dark Sun | 52 |
| Delta V | 43 |
| Detroit | 42 |
| Disciples of Steel | 40 |
| Dragon Knight 3 | 43 |
| Dragon Knight 3 Upgrade | 5 |
| Dragon's Lair 3 5.25 | 29 |
| Elder Scrolls The Arena | 43 |
| Empire Deluxe Windows | 37 |
| Eye Beholder 1,2,3 Bundle | 52 |
| F-18 Hornet | 35 |
| Falcon 3.0 | 50 |
| Falcon 3.0 Mig 29 | 37 |
| Fatty Bear B'Day Surp. | 35 |
| Fields of Glory | 42 |
| Flashback | 35 |
| Fleet Defender F-14 | 50 |
| Flight Light | 22 |
| Flight Light Plus | 32 |
| Flight Sim Toolkit Win | 59 |
| Formula One | 27 |
| Frontier Elite 2 | 40 |
| Gabriel Knight | 43 |
| Goblins 3 | 27 |
| Great Naval Battles 2 | 47 |
| Hannibal | 32 |
| Harpoon 2 | 45 |
| Harpoon 2 #2 WESTPAC | 30 |
| Harpoon 2 Editor | 30 |
| High Command | 47 |
| Inca 2 | 22 |
| Incredible Toons | 25 |
| IndyCar Racing | 42 |
| Isle of the Dead | 27 |
| Kasparov's Gambit | 39 |
| King Maker | 37 |
| King's Ransom | 37 |
| Kingdoms of Germany | 37 |
| Lands of Lore | 37 |
| Links 385 CD Castle Pines | 22 |
| Links 386 Pro | 42 |
| Links Course Belfry | 22 |
| Links Course Innisbrook | 22 |
| Links Pebble Beach | 29 |
| Master of Orion | 45 |
| Meadowlark Bridge | 52 |
| Mech Warrior 2 Disk 1 | 22 |
| MechWarrior 2 | 47 |
| Metal and Lace | 34 |
| Metal and Lace Upgrade | 6 |
| Microsoft Flight Sim 5.0 | 49 |
| MM 2 Day of Tentacle | 40 |
| New York Scenery Disk | 34 |
| NHL Hockey '94 | 43 |
| Operation Crusader | 47 |
| Pacific Strike | 50 |
| Pacific Strike Speech | 22 |
| Pacific Theatre Oper. | 42 |
| Paris Scenery Disk | 34 |
| PowerPoker Windows | 40 |
| Privateer | 52 |
| Privateer Righteous Fire | 25 |
| Privateer Speech Pack | 22 |
| Putt Putt Goes to Moon | 35 |
| Quarterpole | 35 |
| Rally | 40 |
| Return to Zork | 47 |
| Romance 3 Kingdoms III | 42 |
| Sailing Simulator III VGA | 49 |
| San Francisco Scenery | 32 |
| Scenery Editor | 27 |
| Scrabble Dlx. Windows | 29 |
| Serf City Life is Feudal | 40 |
| Shadowcaster | 35 |
| Siege Walls of Rome | 40 |
| Sim City 2000 | 43 |
| SimCity 2000 MD 1 | 18 |
| Simon the Sorcerer | 34 |
| SSN-21 Seawolf | 45 |
| Star Reach | 37 |
| Star Trek Judgement | 37 |
| Star Trek Next Gen. | 37 |
| Stonekeep | 47 |
| Strip Poker Professional | 34 |
| Stronghold | 40 |
| Sub Wars 2050 | 38 |
| Syndicate | 37 |
| Syndicate Amer. Revolt | 25 |
| System Shock | 50 |
| T2 Arcade Game | 32 |
| Terminator Rampage | 43 |
| TFX | 54 |
| The Dig | 43 |
| The Merchant Prince | 40 |
| Theme Park | 40 |
| Third Reich | 37 |
| Tie Fighter | 43 |
| Timeout Sports Baseball | 27 |
| Tower | 43 |
| Ultima VIII Pagan | 52 |
| Ultima VIII Speech Pack | 22 |
| Unlimited Adventures | 37 |
| Unnecessary Roughness | 37 |
| V Victory 4: Gold Juno | 43 |
| Victory at Sea | 45 |
| Warlords 2 | 43 |
| Washington Scenery | 34 |
| WC 2 & Speech Pak | 27 |
| Wing Commander Armada | 40 |
| Wings of Glory | 50 |
| WW II Battles Pacific | 37 |
| X-Wing | 42 |
| X-Wing 1 Imperial Pursuit | 22 |
| X-Wing MD 2 B Wing | 22 |

## JOYSTICKS

| | |
|---|---|
| ACM Game Card | 35 |
| Flight Control Pro | 95 |
| Flight Control System | 69 |
| Flight Stick | 39 |
| Flight Stick Pro | 62 |
| Formula T 1 | 125 |
| G Force Yoke | 59 |
| Gamecard III Automatic | 34 |
| Parallel Game Port | 37 |
| PC Gamepad | 23 |
| Rudder Pedals | 115 |
| Virtual Pilot | 69 |
| Weapons Control Mark 2 | 95 |

## SOUNDCARDS

| | |
|---|---|
| FX 16 | 99 |
| Pro Audio Spectrum 16 | 189 |
| Real Magic Board | 365 |
| Sound Blaster 16 ASP | 199 |
| Sound Blaster 16 SCSI | 234 |
| Sound Blaster Pro Deluxe | 99 |
| Sound Galaxy NX Pro 16 | 139 |
| Sound Machine Sound Kit | 79 |
| UltraSound | 129 |
| Voice Blaster | 69 |
| Wave Blaster | 183 |

**Methods of Payment**

We accept Visa, MC, Discover Card & Money orders. Personal checks allow 14 days to clear. School, State & City purchase orders accepted.

**Shipping**

UPS Ground ($5 minimum)/UPS Blue ($7 minimum); APO & FPO ( $7 minimum); Overseas minimum $30 shipping (please fax orders) Send money orders or checks to:

**MISSION CONTROL**
**7 Oak Place**
**Dept. CGW0794**
**Montclair, NJ 07042**

Overseas & Military Orders given special attention!

**FREE SHIPPING**

On All US Orders over $50 via UPS Ground

Simply send in coupon with your order!

Offer expires 07/31/94

**Spring Sale!**

| | | | |
|---|---|---|---|
| A.T.A.C. | 24 | Lemmings 2 | 29 |
| AutoMap Windows | 29 | Rex Nebular | 19 |
| BattleChess 4000 | 24 | CD ROM | |
| Buzz Aldrin Race | 29 | Bible Library | 39 |
| Dragon's Lair 3 | 29 | Mystique of Orient | 29 |
| F-15 Strike Eagle3 | 34 | Wing Commander & | |
| Leather Goddess | 19 | Ultima 6 Bundle | 29 |

**Get the facts via FaxBack...**

Call 201.783.3374 from your fax machine. Receive information on new releases, Adult CD rom, specials, and more.

24 HOURS A DAY • 7 DAYS A WEEK

Our New Mission Control Communique is here! Order our color catalogue filled with New items, CD Rom, Adult CD Rom, Discount Coupons, Complete Listings and more! FREE with your order, otherwise send $2.00. (Outside of US and Canada send $5.00)




MISSION CONTROL

Circle Reader Service #93

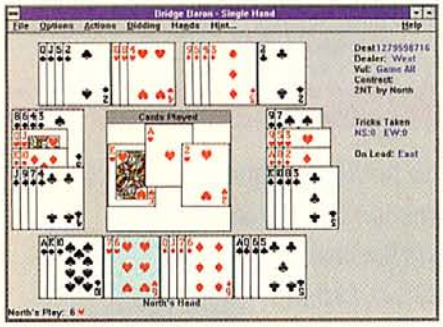
INTERNATIONAL 201-783-3600 • FAX 201-783-3686

# These Just In

*"Now Playing" features screenshots and brief descriptions of new products we received just before press time. We offer these descriptions to inform you that these games are on the shelves and to give you our first impressions of them.*

### BRIDGE BARON FOR WINDOWS

The most competitive computer bridge program just became Windows-compatible. Tom Throop's bridge programs have historically been among the most challenging, but the Alfred Sheinwold commentary and 24 separate bridge problems make this version particularly strong. Most popular bidding conventions are included, along with cumulative match statistics and a host of different match styles to play. As a special plus,

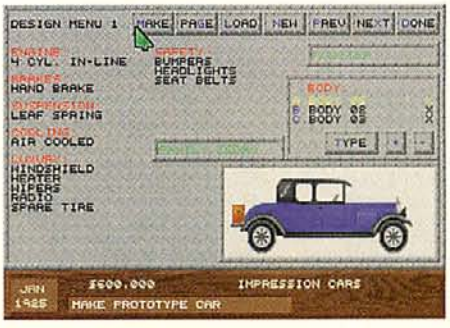


there is a Double Dummy defense to those bridge fanatics who feel that bidding flow charts simply aren't enough. IBM, $49.95. Circle Reader Service #5.

*GREAT GAME PRODUCTS, 8804 CHALON DRIVE BETHESDA, MD 20817, (800) 426-3748*

### DETROIT

Economic empire builders who play computer games to become a RAILROAD TYCOON or make AIR BUCKS, it's time to consider a drive-by looting and make your pile building cars in DETROIT. Spreadsheet warriors will not be phased by the minimal game animations—designing, marketing, building and researching new automotive technologies will be more than enough for them. Anyone who has ever wanted to




spread their production tentacles across the globe, cut wages and benefits in the midst of prosperity, or sack striking workers "just to show them," your managerial tendencies (be they maniacal or benevolent) will certainly emerge as you put the world on wheels. IBM ($69.95). Circle Reader Service #7.

*IMPRESSIONS SOFTWARE, INC., 222 THIRD STREET, SUITE 0234, CAMBRIDGE, MA 02142 (203) 676-9002*

### FORMULA ONE

**Spectrum HoloByte** and **Domark** are both known for innovations, but this isn't exactly FALCON TOOLKIT meets FORMULA ONE RACING. The 16-page manual gives an idea of the relative depth of the product, as does the box, which is 95% filled with

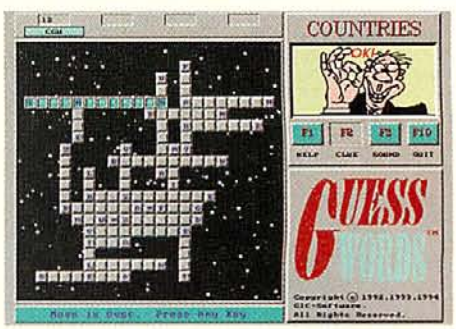



air. Terrain does fly by rapidly in the game, billed as "The fastest racing game ever." Twelve tracks, ranging from Adelaide to the inevitable Monte Carlo are included, perhaps the most challenging being the woods-surrounded turns of Hockenheim, Germany. Four levels of play build in realism and difficulty, but this game has long been left behind by WORLD CIRCUIT and INDYCAR RACING, so take a long pit stop before deciding on a spin. IBM, $49.95. Circle Reader Service #16.

*SPECTRUM HOLOBYTE, 2490 MARINER SQUARE LOOP, ALAMEDA, CA, (510) 522-1164*

### GUESSWORDS

As multimedia inexorably reaches out, however haltingly, to the masses, parlor games from the collective unconscious emerge on the computer landscape. Billed as "an age-friendly game," GUESSWORDS is




another of those noble attempts to make the computer a family institution. The premise is sound—most people do like trivia games to a degree, and the categories are generic enough, that most everyone will be able to find questions within their ability to answer. The topic/subject screen is reminiscent of a daily planner, and the specific game screens

WE HAVE
# OVER 2,000 TITLES
call for more!

## USED IBM GAMES
### COMPLETE & VIRUS FREE
*WITH THE ORIGINAL BOX, DOCUMENTATION AND DISKS*

| | |
|---|---|
| 4D BOXING | 7 |
| 688 ATTACK SUB | 8 |
| 7TH GUEST - CD | 37 |
| A-TRAIN | 21 |
| A.T.A.C. | 19 |
| A10 TANK KILLER 1.5 | 15 |
| ABC BOXING | 13 |
| ABC MONDAY NIGHT FB | 5 |
| ACES OF THE PACIFIC | 21 |
| ACTION SPORTS SOCCER | 13 |
| ACTION STATIONS | 11 |
| ADV OF WILLY BEAMISH | 16 |
| AIR BUCKS | 15 |
| AIR BUCKS VER 1.2 | 19 |
| AIR FORCE COMMANDER | 7 |
| ALL AMERICAN COLLG FB | 9 |
| ALONE IN THE DARK | 24 |
| ALTERED DESTINY | 16 |
| AMAZON | 16 |
| AMBUSH | 19 |
| ANCIENT ART WAR - SEA | 8 |
| ANCIENT ART WAR - SKY | 9 |
| APBA FOOTBALL | 12 |
| ARE WE THERE YET? | 11 |
| ARMADA 2525 | 16 |
| ARMOUR ALLEY | 8 |
| B.A.T. | 4 |
| B17 FLYING FORTRESS | 15 |
| BAD BLOOD | 13 |
| BALANCE OF POWER 1990 | 9 |
| BALANCE OF THE PLANE | 13 |
| BARD'S TALE 1 | 7 |
| BARD'S TALE 2 | 10 |
| BARD'S TALE 3 | 19 |
| BARD'S TALE CONST SET | 13 |
| BATTLE CHESS | 9 |
| BATTLE CHESS - CD | 16 |
| BATTLE ISLE | 14 |
| BATTLEHAWKS 1942 | 5 |
| BATTLES OF DESTINY | 16 |
| BATTLETECH 1 | 5 |
| BATTLETECH 2 | 9 |
| BETRAYAL AT KRONDOR | 29 |
| BIG BUSINESS | 7 |
| BLITZKRIEG ARDENNES | 13 |
| BLOODSTONE | 21 |
| BLOODWYCH | 7 |
| BLUE ANGELS | 8 |
| BLUE FORCE:NEXT OF KIN | 25 |
| BO JACKSON BASEBALL | 5 |
| BRAIN BLASTER | 6 |
| BREACH 2 | 9 |
| BREACH 2 SCEN DISK | 8 |
| BUCK ROGERS 1 | 5 |
| BUZZ ALDRIN RACE INT | 28 |
| CAESAR | 21 |
| CAESARS PALACE | 6 |
| CAMPAIGN | 17 |
| CAR & DRIVER | 21 |
| CARRIER COMMAND | 5 |
| CARRIER STRIKE | 21 |
| CARRIERS AT WAR | 13 |
| CASTLE DR BRAIN - VGA | 17 |
| CASTLES | 9 |
| CASTLES 2 | 19 |
| CASTLES-NRTHRN CMPN | 5 |
| CENTERION DFNDR ROME | 5 |
| CHALLENGE OF 5 REALM | 19 |
| CHAMBER SCI MUT PRST | 12 |
| CHAMPIONS OF KRYNN | 9 |
| CHESSMASTER 3000 WIN | 19 |
| CIVILIZATION | 24 |
| CLASH OF STEEL | 29 |
| CLUE MASTER DETECTIV | 9 |
| COASTER | 12 |
| CODE NAME: ICEMAN | 5 |
| COLONEL'S BEQUEST | 10 |
| COMMAND HQ | 6 |
| CONAN | 9 |
| CONFLICT: KOREA | 7 |
| CONFLICT: MIDDLE EAST | 8 |
| CONQUERED KINGDOMS | 25 |
| CONQUESTS OF CAMELOT | 5 |
| CONQUESTS OF JAPAN | 19 |
| CONQUESTS OF LONGBO | 15 |
| CONTINUUM | 12 |
| CORPORATION | 6 |
| COUNTDOWN | 12 |
| COVERT ACTION | 5 |
| CRACK DOWN | 6 |
| CRIBBAGE GIN KING | 13 |
| CRIME WAVE | 13 |
| CRISIS IN THE KREMLIN | 11 |
| CRUISE FOR A CORPSE | 14 |
| CURSE OF AZURE BONDS | 9 |
| CYBER EMPIRE | 12 |
| CYBER RACE | 22 |
| CYBERGENIC RANGER | 4 |
| DAGGER OF AMMON RA | 19 |
| DARK CENTURY | 18 |
| DARK QUEEN OF KRYNN | 15 |
| DARK SUN | 29 |
| DARKLANDS | 14 |
| DARKLANDS MASTER ED | 29 |
| DARKSEED | 17 |
| DARKSPYRE | 7 |
| DAUGHTER OF SERPENTS | 15 |
| DAVID WOLF: SECRET AG | 10 |
| DAY OF THE VIPER | 7 |
| DEATH KNIGHT OF KRYN | 14 |
| DEJA VU 2 LOST IN LV | 4 |
| DICK TRACY | 7 |
| DISCIPLES OF STEEL | 23 |
| DON'T GO ALONE | 3 |
| DOUBLE DRAGON 2 | 4 |
| DRAGON FORCE | 8 |
| DRAGON LORD | 6 |
| DRAGON WARS | 6 |
| DRAGONS OF FLAME | 5 |
| DRAKKHEN | 8 |
| DUNE | 9 |
| DUNE 2 | 28 |
| DUSK OF THE GODS | 9 |
| EARTHRISE | 4 |
| EL FISH | 23 |
| ELVIRA 1 | 10 |
| ELVIRA 2 | 13 |
| EPIC | 21 |
| ERIC THE UNREADY | 17 |
| ESCAPE FROM HELL | 5 |
| ETERNAM | 15 |
| EYE OF BEHOLDER 2 | 16 |
| EYE OF BEHOLDER 3 | 19 |
| EYE OF BEHOLDER 3-CD | 35 |
| GUNSHIP 2000 VGA | 19 |
| HALLS OF MONTEZUMA | 16 |
| HAND OF FATE | 25 |
| HARD NOVA | 8 |
| HARDBALL 3 | 18 |
| HARPOON | 14 |
| HARPOON DESIGNER SER | 10 |
| HARPOON EDITOR | 14 |
| HARRIER ASSAULT | 19 |
| HEART OF CHINA - VGA | 9 |
| HEAVEN & EARTH | 12 |
| HEAVY METAL | 13 |
| HEIMDALL | 7 |
| HEROES OF THE 357TH | 11 |
| HEROES OF THE LANCE | 9 |
| HIGH COMMAND | 29 |
| HILLSFAR | 9 |
| HOOK | 9 |
| HOVERFORCE | 19 |
| HOYLE'S BK GAMES VOL 1 | 12 |
| HOYLE'S BK GAMES VOL 2 | 12 |
| HOYLE'S BK GAMES VOL 3 | 16 |
| HUMANS | 14 |
| HUNT RED OCTOBER | 16 |
| HYPERSPEED | 8 |
| IMMORTAL | 11 |
| INCA | 17 |
| INCREDIBLE MACHINE VGA | 19 |
| INDIANAPOLIS 500 | 11 |
| INDY JONES FATE ATLA | 19 |
| INDY JONES: LAST CRUS | 16 |
| ISHIDO | 9 |
| MAGIC JOHNSON MVP | 5 |
| MANHOLE | 18 |
| MANHUNTER SF | 5 |
| MANTIS EXP FIGHTER-VGA | 11 |
| MANTIS EXP SPEECH PA | 12 |
| MARTIAN DREAMS | 12 |
| MARTIAN MEMORANDUM | 13 |
| MATRIX CUBED | 4 |
| MAXIMUM OVERKILL | 29 |
| MAXIMUM OVERKILL MISS | 15 |
| MEAN STREETS | 5 |
| MECHWARRIOR | 13 |
| MEDIEVAL LORDS | 7 |
| MEGAFORTRESS | 8 |
| MEGAFORTRESS MISS DK | 8 |
| MEGATRAVELLER 1 ZHOD | 4 |
| MEGATRAVELLER 2 | 7 |
| MERCHANT COLONY | 6 |
| METAL & LACE | 23 |
| MICHAEL JORDAN FLT SIM | 16 |
| MIDWINTER | 5 |
| MIG 29 FULCRUM | 14 |
| MIGHT & MAGIC 1 | 8 |
| MIGHT & MAGIC 2 | 7 |
| MIGHT & MAGIC 3 | 19 |
| MIGHT & MAGIC 4 | 26 |
| MIGHT & MAGIC 5 | 29 |
| MIKE DITKA FOOTBALL | 9 |
| MILLENIUM | 4 |
| MINES OF TITAN | 5 |
| MISSION: IMPOSSIBLE | 5 |
| ML BASEBALL 4 USAT | 9 |
| PSYCHIC WAR | 6 |
| QUEST FOR GLORY 1-EGA | 5 |
| QUEST FOR GLORY 1-VGA | 12 |
| QUEST FOR GLORY 2-EGA | 12 |
| QUEST FOR GLORY3-VGA | 17 |
| RAILROAD TYCOON | 14 |
| RAMPART | 11 |
| REALMS | 9 |
| REALMS OF ARKANIA | 21 |
| RED CRYSTAL | 22 |
| RED LIGHTNING | 5 |
| RED STORM RISING | 8 |
| RETURN OF PHANTOM | 19 |
| RETURN TO ZORK | 29 |
| REVOLUTION '76 | 9 |
| REX NEBULAR COS GEN | 22 |
| RIDERS OF ROHAN | 12 |
| RISE OF DRAGON-VGA | 19 |
| ROAD & TRACK GRAN PR | 19 |
| ROAD TO FINAL FOUR | 23 |
| ROBOSPORT - WIN | 21 |
| ROCKETEER | 18 |
| ROMANCE 3 KINGDOMS | 14 |
| ROMANCE 3 KINGDOMS 2 | 19 |
| ROME: PATHWAY TO POW | 19 |
| RULES OF ENGAGEMENT | 6 |
| RULES OF ENGAGMNT 2 | 24 |
| SAVAGE EMPIRE | 15 |
| SCRABBLE | 12 |
| SEAL TEAM | 29 |
| SEARCH FOR THE KING | 10 |
| SECOND FRONT | 12 |
| STAR FLEET 2 | 19 |
| STAR LEGIONS | 7 |
| STAR TREK 25TH ANNIV | 18 |
| STAR TREK: JUDGEMENT | 29 |
| STAR WARS CHESS | 29 |
| STARFLIGHT 1 | 5 |
| STARFLIGHT 2 | 5 |
| STELLAR 7 | 9 |
| STORMOVIK | 6 |
| STREET FIGHTER 2 | 22 |
| STREET ROD 2 | 9 |
| STRIKE ACES | 13 |
| STRIKE COMMANDER | 28 |
| STRIKE COMMANDER SP | 8 |
| STRONGHOLD | 24 |
| STUNT DRIVER | 10 |
| STUNT ISLAND | 19 |
| STUNTS | 10 |
| SUMMONING | 9 |
| SWORD OF ARAGON | 13 |
| SYNDICATE | 18 |
| TANGLED TALES | 9 |
| TANK | 13 |
| TASK FORCE 1942 | 19 |
| TEAM YANKEE | 8 |
| TEENAGE MNT ARCADE | 11 |
| TEENAGE MNT MANH MIS | 19 |
| TEGEL'S MERCENARIES | 5 |
| TERMINATOR | 9 |
| TERMINATOR 2029 | 24 |
| TEST DRIVE 2 | 15 |
| TEST DRIVE 3 | 19 |
| TEST DRIVE 3:ROAD&CAR | 9 |
| THE PROPHECY | 15 |
| THEATRE OF WAR | 8 |
| THEIR FINEST HOUR | 12 |
| THEXDER 1 | 9 |
| THUNDER HAWK | 5 |
| THUNDERSTRIKE | 9 |
| TIMES OF LORE | 11 |
| TOM LANDRY FOOTBALL | 11 |
| TONY LARUSSA BB | 13 |
| TONY LARUSSA ULT BB | 5 |
| TOP GUN DANGER ZONE | 15 |
| TORNADO | 30 |
| TRACON | 10 |
| TRACON 2 | 15 |
| TREASURES SAVAGE FR | 9 |
| TRILOGY | 10 |
| TRISTAN PINBALL | 9 |
| TUNNELS & TROLLS | 6 |
| TWILIGHT 2000 - VGA | 16 |
| TYPHOON OF STEEL | 6 |
| ULTIMA 4 - QUEST AVAT | 15 |
| ULTIMA 5 WARRIORS DE | 16 |
| ULTIMA 6 FALSE PROPH | 11 |
| ULTIMA 7 BLACK GATE | 29 |
| ULTIMA 7 FORGE OF VIRT | 11 |
| ULTIMA 7.5 SERPENT ISLE | 29 |
| ULTIMA 7.5 SILVER SE | 16 |
| ULTIMA TRILOGY 1 | 15 |
| ULTIMA TRILOGY 2 | 26 |
| ULTIMA UNDERWORLD 1 | 16 |
| ULTIMA UNDERWORLD 2 | 28 |
| ULTRABOTS SANCTION E | 23 |
| UMS 2 | 5 |
| UNCHARTED WATERS | 21 |
| UNDER FIRE | 8 |
| UNLIMITED ADVENTURES | 21 |
| UNNECESSARY ROUGHNESS | 29 |
| UTOPIA | 14 |
| V VICTORY: UTAH BEACH | 14 |
| VEIL OF DARKNESS | 19 |
| VENGEANCE OF EXCALIBR | 6 |
| VIKING CHILD | 16 |
| VISIONS OF AFTERMATH | 7 |
| WAR IN MIDDLE EARTH | 6 |
| WAR IN THE GULF | 15 |
| WARLORDS | 6 |
| WARLORDS 2 | 31 |
| WAXWORKS | 16 |
| WC 2 SPEC OPERATION 1 | 15 |
| WC 2 SPEC OPERATION 2 | 15 |
| WC 2 SPEECH PACK | 8 |
| WC SECRET MISSION 1 | 5 |
| WC SECRET MISSION 2 | 5 |
| WC/ULTIMA 6 - CD | 32 |
| WEAVER BASEBALL 2 | 5 |
| WEAVER COMMISIONERS | 7 |
| WEAVER MLBPA PLR ST | 3 |
| WESTERN FRONT | 15 |
| WHEN TWO WORLDS WR | 28 |
| WHERE IN WORLD CSD | 28 |
| WHERE IN WRLD CSD-CD | 29 |
| WING COMM ACADEMY | 26 |
| WING COMMANDER 1 | 9 |
| WING COMMANDER 2 | 23 |
| WIZARDRY 5 | 15 |
| WIZARDRY 6-COSMIC FOR | 19 |
| WIZARDRY 7-CRUSADERS | 29 |
| WIZARDY 4 | 11 |
| WOLFENSTEIN 3D | 16 |
| WOLFPACK | 9 |
| WONDERLAND | 9 |
| WORLD CIRCUIT | 24 |
| WORLDS AT WAR | 9 |
| X-WING | 29 |
| X-WING B WING | 13 |
| X-WING IMPERIAL PURS | 13 |
| YEAGER'S AFT | 4 |
| YEAGER'S AIR COMBAT | 14 |
| EYE OF THE BEHOLDER | 9 |
| F-117A STEALTH FIGHTER | 17 |
| F15 STRIKE EAGLE 2 | 11 |
| F15 STRIKE EAGLE 3 | 29 |
| F19 STEALTH FIGHTER | 7 |
| FALCON 3.0 | 32 |
| FALCON 3.0 FIGHT TIGER | 16 |
| FALCON AT | 9 |
| FANTASY EMPIRE | 26 |
| FIGHTING FOR ROME | 5 |
| FINAL CONFLICT | 9 |
| FIRETEAM 2200 | 7 |
| FLAMES OF FREEDOM | 8 |
| FLASHBACK | 22 |
| FLIGHT OF INTRUDER | 8 |
| FLIGHT SIMULATOR 4.0 | 18 |
| FLIGHT SIMULATOR 5.0 | 32 |
| FLOOR 13 | 10 |
| FOUNTAIN OF DREAMS | 5 |
| FOUR CRYSTALS TRAZER | 9 |
| FREDDY PHARKAS FATR | 22 |
| FREE DC | 5 |
| FRONT PAGE FB PRO | 29 |
| FRONT PAGE FOOTBALL | 15 |
| FULL METAL PLANET | 9 |
| FUTURE WARS | 5 |
| GABRIEL KNIGHT | 29 |
| GARY GRIGSBY PACIFIC | 29 |
| GATEWAY | 11 |
| GATEWAY 2: HOMEWRLD | 29 |
| GATEWAY SAVAGE FATR | 19 |
| GENGHIS KHAN | 19 |
| GHOSTS & GOBLINS | 5 |
| GLOBAL CONQUEST | 9 |
| GLOBAL EFFECT | 5 |
| GOBLIINS - VGA | 14 |
| GOBLIINS 2 - VGA | 19 |
| GODFATHER | 9 |
| GOLD OF AZTECS | 9 |
| GOLD OF THE AMERICAS | 9 |
| GOLD RUSH | 8 |
| GRAIL QUEST | 9 |
| GRANDSLAM BRIDGE | 7 |
| GREAT NAVAL BATTLES | 19 |
| GREAT NB AMERICA ATL | 12 |
| GREAT NB SUPER SHIPS | 12 |
| GREENS | 22 |
| GUNBOAT | 9 |
| GUNSHIP 2000 SCEN DSK | 16 |
| GUNSHIP | 5 |
| ISLAND OF DR BRAIN VGA | 19 |
| JACK NICKLAUS SE CRS | 6 |
| JACK NICKLAUS SIGNATU | 19 |
| JACK NICKLAUS UNL GOLF | 13 |
| JAMES BOND STEALTH | 9 |
| JCK NICKLAUS GRTST 18 | 9 |
| JET FIGHTER 2 MISSION | 12 |
| JET FIGHTER 2.0 | 26 |
| JOE MONTANA FOOTBALL | 14 |
| JONES IN THE FAST LANE | 14 |
| JUMP JET | 26 |
| KEYS TO MARAMON | 8 |
| KGB | 11 |
| KILLING CLOUD | 4 |
| KING'S QUEST 4 - EGA | 13 |
| KING'S QUEST 5 - VGA | 19 |
| KING'S QUEST 6 - VGA | 19 |
| KNIGHTS OF THE SKY | 12 |
| KOSHAN CONSPIRACY | 21 |
| L'EMPEREUR | 19 |
| LAKERS VS CELTICS | 6 |
| "LAND,SEA,AIR TRILOGY" | 10 |
| LANDS OF LORE | 29 |
| LASER SQUAD | 7 |
| LEATHER GODDESSES 2 | 24 |
| LEGACY:REALM OF TERR | 25 |
| LEGEND OF FAERGHAIL | 12 |
| LEGEND OF KYRANDIA | 19 |
| LEGENDS OF VALOR | 9 |
| LEISURE SUIT LARRY 5 | 19 |
| LEMMINGS | 15 |
| LEMMINGS 2 | 21 |
| LEXICROSS | 9 |
| LHX ATTACK CHOPPER | 6 |
| LIGHTSPEED | 4 |
| LINE IN THE SAND | 7 |
| LINKS 386 PRO | 26 |
| LINKS GOLF | 16 |
| LORD OF THE RINGS 2 | 19 |
| LOST ADMIRAL ENHANCED | 13 |
| LOST FILES SHERLOCK | 19 |
| LOST IN LA | 15 |
| LOST IN TIME | 16 |
| LUNAR COMMAND | 18 |
| MADDEN FOOTBALL 1 | 5 |
| MADDEN FOOTBALL 2 | 15 |
| MAELSTROM | 25 |
| MAGIC CANDLE 1 | 8 |
| MAGIC CANDLE 2 | 7 |
| MAGIC CANDLE 3 | 10 |
| ML BASEBALL GM/OWNER | 10 |
| ML BASEBALL MANAGERS | 4 |
| ML FOOTBALL 2 | 9 |
| ML FOOTBALL DELUXE | 19 |
| MONKEY ISLAND 2 | 21 |
| MONKEY ISLAND VGA | 16 |
| MOONBASE | 9 |
| MURDER | 14 |
| NASCAR CHALLENGE | 19 |
| NFL 94 FOOTBALL | 19 |
| NFL COACH'S CLUB | 25 |
| NFL FOOTBALL | 5 |
| NFL PRO LEAGUE FB '91 | 5 |
| NFL PRO LEAGUE FB '92 | 9 |
| NFL PRO LEAGUE FB '93 | 12 |
| NFL VIDEO FOOTBALL | 13 |
| NIGHTBREED | 9 |
| NO GREATER GLORY | 18 |
| NOVA 9 VGA | 11 |
| OBITUS | 16 |
| OIL'S WELL | 8 |
| OPERATION COMBAT | 6 |
| OUT OF THIS WORLD | 19 |
| OVERLORD | 6 |
| PALADIN 2 | 22 |
| PAPERBOY 2 | 13 |
| PATRIOT | 9 |
| PERFECT GENERAL | 19 |
| PIRATES | 4 |
| PLANET'S EDGE | 19 |
| PLAYMAKER FOOTBALL | 6 |
| POLICE QUEST 1 - VGA | 9 |
| POLICE QUEST 3 - VGA | 19 |
| POLICE QUEST 4 | 32 |
| POOL OF RADIANCE | 9 |
| POOLS OF DARKNESS | 19 |
| POPULOUS | 8 |
| POPULOUS 2 | 19 |
| POWER HITS: MOVIES | 13 |
| POWER HITS: SCI / FI | 16 |
| POWER HITS: SPORTS | 13 |
| POWERHITS: BATTLETEC | 21 |
| POWERMONGER | 15 |
| PRINCE OF PERSIA | 17 |
| PRINCE OF PERSIA 2 | 25 |
| PRIVATEER | 35 |
| PRO LEAGUE BASEBALL | 9 |
| PROPHECY 1 | 5 |
| PROPHECY OF SHADOW | 4 |
| PROTOSTAR | 26 |
| SECRET OF SILVER BLADE | 6 |
| SECRET WEAPONS - EXPAN | 8 |
| SECRET WEAPONS LUFTW | 19 |
| SENTINEL WORLDS | 3 |
| SHADOW CASTER | 28 |
| SHADOW OF YSERBIUS | 21 |
| SHADOW PRESIDENT | 18 |
| SHADOW SORCERER | 6 |
| SHADOWGATE - WIN | 19 |
| SHADOWLANDS | 13 |
| SHERLOCK HOLMES -CD | 24 |
| SHUTTLE | 12 |
| SIEGE | 8 |
| SIEGE EXP:DOGS OF WAR | 8 |
| SIERRA ADV BUNDLE | 24 |
| SIERRA FAMILY FUN PK | 19 |
| SILENT SERVICE 2 | 9 |
| SILPHEED | 14 |
| SIM ANT | 19 |
| SIM CITY | 17 |
| SIM CITY GRAPHICS SET 1 | 10 |
| SIM CITY GRAPHICS SET 2 | 12 |
| SIM CITY TERRAIN EDIT | 10 |
| SIM EARTH | 13 |
| SIM LIFE | 26 |
| SKATE OR DIE | 3 |
| SOLITAIRE'S JOURNEY | 22 |
| SORCERIAN | 8 |
| SPACE 1889 | 6 |
| SPACE HULK | 17 |
| SPACE QUEST 1 - VGA | 10 |
| SPACE QUEST 2 - EGA | 10 |
| SPACE QUEST 3 | 12 |
| SPACE QUEST 4 - VGA | 19 |
| SPACE QUEST 5 - VGA | 27 |
| SPACE QUEST BUNDLE | 24 |
| SPACE ROGUE | 12 |
| SPACEWARD HO! | 17 |
| SPACEWRECKED | 11 |
| SPEAR OF DESTINY | 23 |
| SPECIAL FORCES | 21 |
| SPECTRE | 21 |
| SPELLCASTING 101 | 13 |
| SPELLCASTING 201 | 19 |
| SPELLCASTING 301 | 26 |
| SPELLCRAFT: ASPECT | 16 |
| SPELLJAMMER PIRATES | 13 |
| SPIRIT OF EXCALIBUR | 6 |
| STAR CONTROL | 14 |
| STAR CONTROL 2 | 24 |

*Prices & availability subject to change. Call Toll Free for current titles and those not listed–we've got lots more! All Used Games are complete & virus free with original box, documentation & disks. System compatibility is not guaranteed. All sales are final–defective games replaced with same title. Free shipping (Regular Ground) in the continental USA on orders over $150.*

we Buy & SELL

# GAMER'S GOLD

## WE PAY CASH FOR USED GAMES
We want your current used games

## 1-800-377-8578
call for authorization before shipping or
FAX list for current quotes to 605-334-8766

In Canada, call 605-339-2060

## WE SELL USED GAMES
All games are tested & IBM disks virus checked
games are in original box with original documentation
Call for current title availibility



WE ACCEPT ONLY
*VISA/MasterCard/Discover*
*Money Orders/Cashiers Check*




Most items shipped same day. $5 UPS/$9 2nd Day Air
*call for information on Canadian shipments*

GAMER'S GOLD • 1008 W. 41st Street • Sioux Falls • South Dakota • 57105

# WE'RE BUYING!
WE NEED GAMES!
## IBM GAMES
### Got Something To Sell?
Follow these Easy Steps

1. Prepare a list of the games you are selling. Call, fax, or mail your list to ***GAMER'S GOLD.***

2. ***GAMER'S GOLD*** will quote the current buying prices & issue an authorization number for your shipment. Games will not be accepted without an authorization no. Price quotes are good for 14 days.

3. Pack games in box. Write authorization no. clearly on outside of box. Mail to ***GAMER'S GOLD***. Save your authorization no. We can't answer questions about your shipment without your number!

4. If you would like to use your money or credit to purchase games, include a "wish list" of titles you are interested in.

5. Your check will usually be mailed within 10-14 working days of receiving your games. Some "wish list" game credits may take slightly longer to fill.

**Games will be checked for viruses & completeness. Games must be complete with all disks, printed materials, & in original box. Incomplete games will be returned at your expense.**

Circle No. 68 on Reader Service Card

look like outtakes from ASTEROIDS backgrounds. For all that, the game does succeed in its quest for a friendly feel, and the ultimate effect is something like ANACROSTICS IN SPACE. If you find the system to your liking, there are four expansion disks, doubtless with more on the way. IBM, $29.95. Circle Reader Service #4.
*GIC SOFTWARE, P.O. BOX 1353, LOS GATOS, CA 95031, (408) 356-7208*

### JACK NICKLAUS SIGNATURE GOLF VOL. 2

Before you toss away that old putter, this is *not* a new game, but an add-on disk for JN SIGNATURE GOLF. Also, the game still utilizes 2-year old technology, giving rise to the inevitable comparisons with LINKS 386. Still, the focus of this title is less on graphics than gameplay and the subtleties of designing a golf course. The courses



here are built by the winners of an Accolade design contest, and offer an almost dizzying variety of challenges, 36 in all, which despite their fictional status, offer plenty of challenges for the aspiring golfer. IBM, $19.95. Circle Reader Service #2.
*ACCOLADE, 5300 STEVENS CREEK BLVD., SAN JOSE, CA 95129, (800) 245-7744*

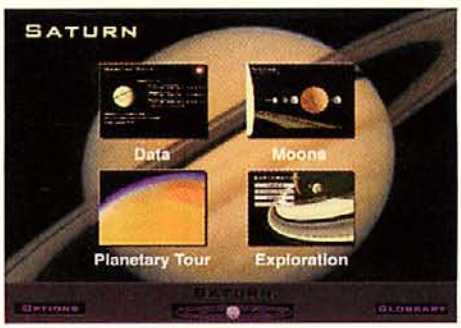
### JOSHUA: THE BATTLE OF JERICHO

Hittites, Canaanites and Perizzites, beware! The son of Nun is crossing another Jordan River as this former Nintendo game enters the Land of PC Promise. Focused at younger gamers, JOSHUA is a PAC-MAN-style game where Hittites replace "ghosts," musical notes reminiscent of the biblical account's trumpet (shofar) blowing substitute for power pills, and the collection of iron, brass and shekel takes the place of dot gobbling. As in its ancient predecessor, pattern memorization and fast reflexes are important, but Joshua requires some knowledge of the biblical account, as well. You must collect five questions per level before exiting the screen and answering said questions for extra points. The game includes 100 levels. IBM ($39.95). Circle Reader Service #21.
*WISDOM TREE, INC., 2700 IMPERIAL HWY, BLDG. A, BREA, CA 92621, (714) 528-3456*



### JOURNEY TO THE PLANETS

A visual feast, this CD-ROM product is a tool for exploring the cosmos. Hundreds of digitized photos are enhanced and shaded to produce details that any amateur astronomer could love. Data files abound to whet the appetite of the more




serious student, who may also check to see what Galileo or Percival had to say about the celestial wonders. The designers do make some concessions to fun, as all the views are three-dimensional "fly-throughs," much faster than Newtonian physics would allow—especially when you travel through solid objects! Topped off by a strong musical score and elegant interface, this seems like a product ready to blast off. IBM MPC/Mac $69.95. Circle Reader Service #9.
*MULTICOM PUBLISHING, INC., 1100 OLIVE WAY, SUITE 1250, SEATTLE, WA 98101, (800) 850-7272*

### ORIGAMO

The Chinese call them TANGRAMS, puzzles made from cutting a paper into five different geometrical shapes and assembling them into different figures. The Japanese call it ORIGAMI, the art of folding paper into different geometrical shapes which, in turn, create figures of birds, animals and the like. In ORIGAMO, you have to apply some of the skill of both. Shapes slide along a conveyor belt in real-time and you have to place colorful geometrically-shaped pieces onto more than 100 gray shapes before the conveyor belt becomes clogged with unused pieces. Once completed, the 113 varicolored puzzles look something like mosaics done in an origami style. Add some colorful animation and a maze to explore (as in the quests of SOLITAIRE'S JOURNEY) and you get a picture of what may be an incredibly addicting game for TETRIS and SHANGHAI fanatics alike. IBM ($49.95). Circle Reader Service #10.
*QQP, INC., 1046 RIVER AVE., FLEMINGTON, NJ 08822, (908) 788-2799*



### PEA SHOOTIN' PETE

Many eons past, in the dim beginnings of the Silicon Age, there was created The Plot For All Arcade Games. And the industry, young though it was, did look upon The Plot, and decided that while it was composed of only one note, that note did indeed sound good in their cash registers. Since that long-ago time, many technologies have been discovered, and some Great




Companies have sunk like Atlantis between the waves, but PEA SHOOTIN' PETE is proof that some things never change. In all fairness, the scrolling is good, as Pete shoots his peas against backdrops no Nintendo could emulate. Some of the animations will bring chuckles to even cynical magazine reviewers. Even so, check out the shareware equivalents before you glide across the screen. After all, you certainly know how this plotline will be resolved. IBM, $19.95. Circle Reader Service #19.
*VILLA CRESPO SOFTWARE, INC., 1725 MCGOVERN ST., HIGHLAND PARK, IL 60035, (708) 433-0500*

# empire SOCCER 94™



## IT'S FAST! IT'S FURIOUS! IT'S EMPIRE SOCCER!

**The soccer game that captures all the excitement and fast paced action of the World Cup Competition.**





- ★ Three gameplay formats: Training, Exhibition & World Cup.
- ★ Managerial control to effect substitutions and formation changes.
- ★ Full ball control: diving headers, overhead kicks, sliding tackle, back heel etc.
- ★ Free kicks, corners, throw-ins and penalties.
- ★ 32 national teams each with different tactics and skill levels.
- ★ Special advanced player moves.
- ★ Up to 8 players in World Cup Tournament.
- ★ Five skill settings ease you from beginner To World Champion.
- ★ Set up your own World Cup leagues.











***Available for IBM PC and Compatibles***

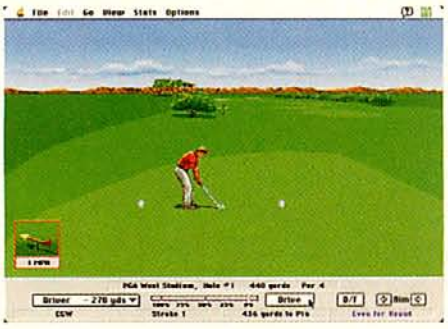
©1994 Empire Software.

empire® SOFTWARE

ENTERTAINMENT INTERNATIONAL (USA) Inc. 4 Professional Drive, Suite 123, Gaithersburg, MD 20879. Voice: (301) 216 9706 FAX: (301) 216 0117

### PGA TOUR GOLF II

Anyone doubting that the computer game industry and Hollywood have a lot in common, need only observe the number of sequels prevalent in each. This version brings undulating fairways and not-so-smooth putting surfaces to the Macintosh. While the graphics will never be mistaken for LINKS, they do significantly improve on the DOS version, with much smoother animation. For the golf fan who wants a



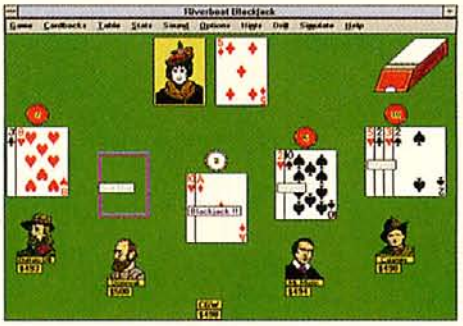
change of pace, this product offers solid competition from computer opponents, as you tee up against the finest in golf, including U. S. Open winner Tom Kite and Player of the Year Fred Couples. In its attempt to be more of a simulation than its competitors, PGA TOUR II includes 10 different ball lies and gusty breezes which would make a meteorologist green with envy. The "accurate ball physics" model is even better. and the varied trajectories for special shots (chips, punches, etc.) have an authentic golf feel to them. Unlike many sequels, this actually adds to the genre—at least for the golfer who doesn't quite have everything. Macintosh, $59.95. Circle Reader Service #3.

*ELECTRONIC ARTS, P.O. BOX 7578, SAN MATEO, CA 94403, (415) 571-7171*

Each of these Riverboat Card Game Series products features an Old West theme and computer opponents who've walked right out the pages of folklore, pulled up their stakes and put their cards on the table. All are played under Windows (only) and feature ragtime background music. What sets them apart, though, is that they provide power tools for users. Each product contains many, many user-definable game variations and instructional information to help build better playing skills.

### RIVERBOAT BLACKJACK

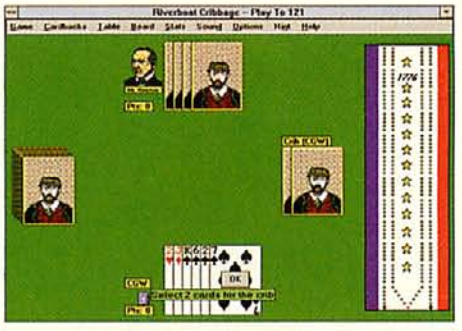
This game boasts over 35,000 Blackjack variations (most, naturally, are slight variations and some, while interesting, are downright obscure). Programmable house rules and a skill-building card counting



system will score points with everyone. IBM for Windows ($29.95). Circle Reader Service #11.

### RIVERBOAT CRIBBAGE

This powerful Cribbage program features 2, 3 and 4-player variations with and without Crib auctions. There are several other variations (61 or 121 point games, individual or partnership, etc.) and an in-



teresting (although, perhaps, out-of-place) 1800's Trivia Showdown. IBM for Windows ($29.95). Circle Reader Service #12.

### RIVERBOAT POKER

With 45 different poker games to select from, and plenty of definable house rules, this poker game can hold its cards up to the best of them. Note that it features a



full, 8-seat game and player styles that can really vary (getting Geronimo's money is one thing, but taking Jesse James' is another matter entirely), making the action constant and lively. IBM for Windows ($29.95). Circle Reader Service #13.

### RIVERBOAT SOLITAIRE

This solitaire package offers plenty of variety in its 75 basic games, each of which has many variations (including number of cards turned over at a time, how many times the deck is gone through, etc.). There are even



some "children's level" solitaire games provided. To round out the package, bar and icon graphs show players' past histories versus "Sol." IBM for Windows ($29.95). Circle Reader Service #14.

*SOFTPRIME, 500 KIRTS, TROY, MI 48084, (800) 362-4400*

### SIM CITY CD-ROM

Sim Citizens of the world, rejoice! Will Wright's masterpiece of urban renewal comes to a CD-ROM theater near you. Your appointed city officials, portrayed by live actors, give full-motion video updates on the state of affairs. News reports feature natural disasters, their terrors enhanced




through special effects, SVGA graphics and thunderous stereo sounds. While the core of Maxis' award-winning game remains intact, the multimedia enhancements make for a more accessible and enjoyable product, especially for that handful of people in the world who haven't yet experienced the joys of running their own metropolis. IBM, $54.95. Circle Reader Service #8.

*INTERPLAY PRODUCTIONS, INC., 17922 FITCH AVE., IRVINE, CA 92714, (714) 553-6655*

### TIGERS ON THE PROWL

Scott Hamilton bills his company as "The Wargamer's Computer Company," and with this release, it's easy to see the wisdom of that *nom de guerre*. WWII small-unit combat is simulated with almost excruciating detail, right down to individual guns and rounds of

TV GAMER PLUS™

DISCOVER THE BIG PICTURE

# PLAY COMPUTER GAMES ON YOUR TV



## YOU Just Plug It In

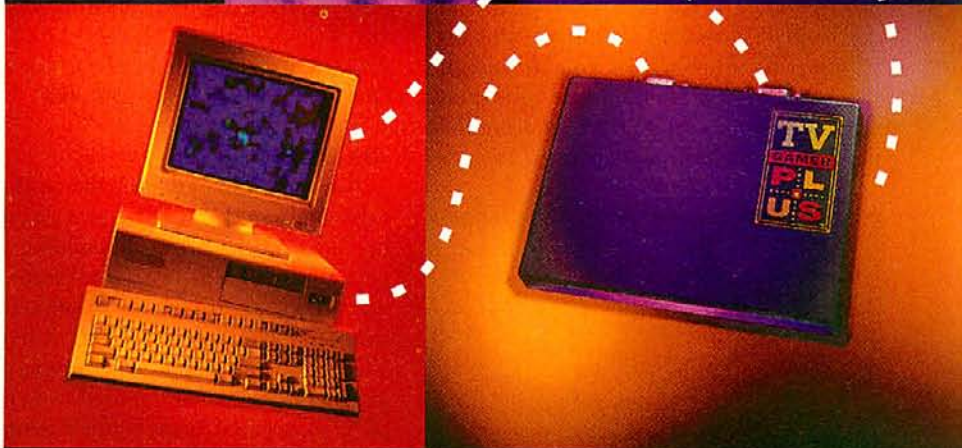
AND THE ULTIMATE COMPUTER GAMING EXPERIENCE IS YOURS! GET READY FOR YOUR MOST AMAZING GAMING ADVENTURE EVER WITH TV GAMER PLUS™. PLAY COMPUTER GAMES LIKE THEY WERE MEANT TO BE SEEN: BIGGER AND BETTER ON YOUR TV! EXPERIENCE COOLER COLORS, BIGGER BOSSES, MEGA MAPS AND SUPER-SIZE SWORDFIGHTS.

**TV Gamer Plus™ Features**

5 YEAR WARRANTY
WINDOWS SUPPORT (IBM VERSION)
IBM & MAC VERSIONS AVAILABLE
EXTRA-LONG RCA CABLE TO TV
ALL CABLES INCLUDED

*Circle Reader Service #112*



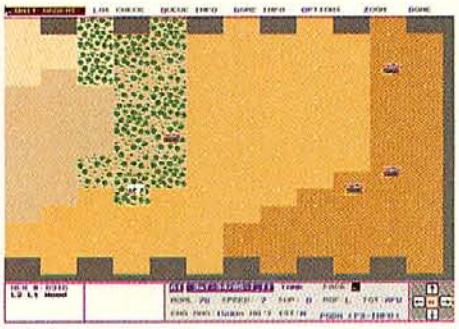

SIIG, Inc.

SIIG, Inc.
6078 Stewart Ave., Fremont, CA 94538 510/657-8688
© 1994 by SIIG, Inc. TV Gamer Plus is a trademark of SIIG, Inc.

**TV Gamer Plus™ Is Available At The Following Locations**

J&R COMPUTER WORLD
BrandsMart U.S.A.
TOPS CITY
COMPUTER City GAMECENTER
Fry's ELECTRONICS
American
WHOLE EARTH ELECTRONICS
MICRO CENTER

ammo. Combat results are based on physical models, including armor thickness and angle, dispersion of infantry units, fragmentation effects, and even the differences in projectile velocity caused by air drag! Boardgamers will love the computer's capaci-

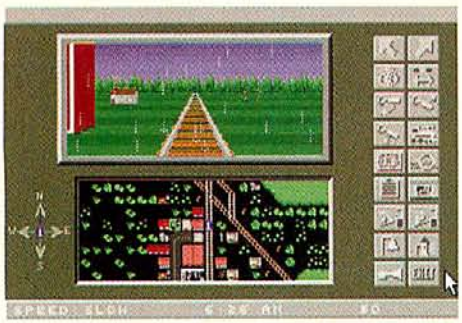


ty for figuring line-of-sight for them, as well as the hidden movement of enemy units. The many options involve night fighting, tactical air strikes, laying minefields and tracing enemy units by the dust trails their vehicles leave. You may deploy such exotic weaponry as flamethrowers, but be careful—the program also checks for fires spreading from forest to nearby towns. Actually, there doesn't seem much that this comprehensive product *doesn't* simulate, as it rightfully models such "soft" factors as morale and training. While the graphic look cannot compare to games from larger companies, die-hard wargamers probably won't want to retreat. IBM $69.95. Circle Reader Service #6.

*HPS Simulations, P.O. Box 3245 Santa Clara, CA 95055, (408) 554-8381*

### TRAIN ENGINEER

The point of view in Train Engineer is exactly what you would expect. Aimed at the model railroading enthusiast, this intriguing product allows you to design scenery-rich layouts and operate your train across that same custom trackage from the perspective of a railroad engineer. In gen-



eral, the graphics lack polish, but certain screens showing the overall layout of the track have an almost "SimTrain" kind of feel that could be satisfying to all of us who have wanted to be able to "enter" the miniature realms of our model railroads. IBM, $54.95. Circle Reader Service #1.

*Abracadata, P.O. Box 2440, Eugene, OR 97402 (503) 683-1925*

### ULTIMATE DOMAIN

Although released through the company that brought fame to Chessmaster, the first clue that this game is of a different breed is that it was designed by mysterious beings called **Microids.** Billed as a medieval adventure, it won't be mistaken for Merchant Prince. Visually, the game is Salvadore Dali painting the Renaissance in 3-D, by way of a Populous interface. Skulls, knives, bombs and a variety of other moody accoutrements mix nicely with the heavy rain and snow effects, to make it easy to believe that the seasons are in fact changing. Aside from all the pyrotechnics, the game has plenty of strategy, with most of the decisions you make being linked to economics in some fashion. Adventure-



game features are also added, as each player must search for the Lost Jewels of Neort. Evidently, building a society, engaging in trade, struggling against nature and fighting wars isn't enough to sustain interest. IBM, $59.95. Circle Reader Service #15.

*The Software Toolworks, 60 Leveroni Ct. Novato, CA 94949, (800) 234-3088*

### VR BASIC

More of a variation on a theme than an original product, VR Basic puts an innovative twist on the 3D world-building genre of products such as Domark's Virtual Reality Toolkit. Instead of an intimidating front end with buttons on-top of buttons, VR Basic is an actual programming language. Code is cut and pasted from examples, or created from scratch using the provided text editor and subsequently run in the graphics viewer. Using an intrepeter instead of a compiler, the program does not yield self-running programs, yet still has nearly 60 powerful high-level functions for you to create virtual worlds of your dreams—or nightmares, using Northcad. Or, simply utilize the library of ready-to-run objects, which range from simple geo-




metrical shapes to a complex polygonal aircraft. All else pales, however, when putting on the cool 3D viewing glasses, whose red-green lenses transform your creations into modern versions of '50s era horror flicks. Don't forget the popcorn. IBM, $49.95. Circle Reader Service #20.

*Waite Group Press, 200 Tamal Plaza, Corte Madera, CA 94925, (800) 368-9369*

### WARLORDS II SCENARIO BUILDER

Updates are always welcome, especially when they include 24 ready-made scenarios. The detailed fantasy wargame creation of Roger Keating and Ian Trout now comes alive with new lands and battlegrounds made from the depths of your imagination (and the trusty editor enclosed). The more seriously inclined may create legions of mythical beasts with the ability to devour heroes—then again, I had fun arming Boy Scouts with scimitars. Gameplay adjustments, such as limiting the razing of cities, are at your discretion. Modifying terrain, dropping in cities and other features, and smoothing and editing the terrain are all explained effectively in the manual. The rough figures you create are transformed




on the screen into real characters which take on a life of their own. The amazing thing is that this product succeeds even though it lets you look behind the curtain of one of the most engaging game systems on the market. IBM, $39.95. Circle Reader Service #17.

*Strategic Studies Group Inc., P.O. Box 261, Drummoyne, NSW 2047, Australia (904) 469-8880*

# THE SCORE

Welcome to the Cooperstown of Computer Games. Here, raised upon pedestals, you'll find the games that broke the records, established the benchmarks, and held gamers in delighted trances for hours untold.

## CGW HALL OF FAME

**The Bard's Tale** (Electronic Arts, 1985)
**Battle Chess** (Interplay Productions, Inc., 1988)
**Chessmaster** (The Software Toolworks, 1986)
**Civilization** (MicroProse, Inc., 1991)
**Dungeon Master** (FTL Software, 1987)
**Earl Weaver Baseball** (Electronic Arts, 1986)
**Empire** (Interstel, 1978)
**F-19 Stealth Fighter** (MicroProse, Inc., 1988)
**Gettysburg: The Turning Point** (SSI, 1986)
**Gunship** (MicroProse, Inc., 1989)
**Harpoon** (Three-Sixty Pacific, 1989)
**Kampfgruppe** (Strategic Simulations, Inc., 1985)
**King's Quest V** (Sierra On-Line, Inc., 1990)
**M-1 Tank Platoon** (MicroProse, Inc., 1989)
**Mech Brigade** (Strategic Simulations, Inc., 1985)
**Might & Magic** (New World Computing, 1986)
**M.U.L.E.** (Electronic Arts, 1983)
**Pirates** (MicroProse, Inc., 1987)
**Railroad Tycoon** (MicroProse, Inc., 1990)
**Red Baron** (Dynamix, 1990)
**SimCity** (Maxis, 1987)
**Starflight** (Electronic Arts, 1986)
**The Secret of Monkey Island** (LucasArts, 1990)
**Their Finest Hour** (LucasArts, 1989)
**Ultima III** (Origin Systems, Inc., 1983)
**Ultima IV** (Origin Systems, Inc., 1985)
**Ultima VI** (Origin Systems, Inc., 1990)
**War in Russia** (Strategic Simulations, Inc., 1984)
**Wasteland** (Interplay Productions, Inc., 1986)
**Wing Commander** (Origin Systems, Inc., 1991)
**Wizardry** (Sir-Tech Software, 1981)
**Zork** (Infocom, 1981)

## H.O.F. Highlights

### ZORK
**INFOCOM, 1981**
**MANY FORMATS**




Inspired by the famous "Adventure" game by Crowther and Woods that had proliferated on mainframes everywhere, the M.I.T. graduates who founded Infocom uncovered The Great Underground Empire of Zork and first brought it to a home computer in 1981. With this fabulous adventure as its cornerstone, Infocom established a rich genre of text games where the "graphics" were painted in the mind, not the computer screen. The classic Infocom games became the benchmarks for puzzle-driven adventure games, and the lavish touches of zany humor provided just enough comic relief whenever the gamer felt most frustrated. ZIL (Zork Interactive Language), the DEC-based development tools with which Infocom games were built, was remarkable for its cross-platform capability and, as a result, Infocom was able to publish their games on more unique platforms than any contemporary game company. Although the text interface was often clumsy, the prose was certainly not; in fact, we're still waiting for a game to match the writing quality and story-telling power of these games.

### THE BARD'S TALE
**ELECTRONIC ARTS, 1985**
**MANY FORMATS**




**The Bard's Tale**, designed by the fledgling group called Interplay, excelled within the role-playing standards of its day. Michael Cranford's original story was relatively simple, but it was enhanced with a host of innovations. It established the state-of-the-art for animated monsters, using three-point animation (three active, randomly moving points in each portrait window) and 3D mazes (all in color, with different bit-mapped textures to be added in later releases). The look and feel of the series became the pinnacle for subsequent games to reach. Later, **The Bard's Tale III** was one of the earliest games with automapping, another gaming innovation that became widely used. How did we ever play without it?

# THE SCORE

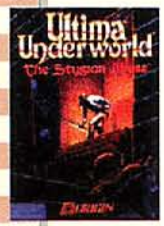
## TOP ADVENTURE GAMES




| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | Day of the Tentacle | LucasArts | 10.03 |
| 2 | Monkey Island 2: Le Chuck's Revenge | LucasArts | 9.91 |
| 3 | Indiana Jones: Fate of Atlantis | LucasArts | 9.79 |
| 4 | Gabriel Knight | Sierra | 9.64 |
| 5 | Quest for Glory III | Sierra | 9.56 |
| 6 | Sherlock Holmes CD I | Viacom | 9.55 |
| 7 | Sam & Max Hit The Road | LucasArts | 9.34 |
| 8 | Star Control II | Accolade | 9.33 |
| 9 | The Seventh Guest | Virgin | 9.32 |
| 10 | Lost Files of Sherlock Holmes | Electronic Arts | 9.20 |

## TOP ROLE PLAYING GAMES

| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | Ultima Underworld | Origin | 10.22 |
| 2 | Betrayal at Krondor | Dynamix | 9.63 |
| 3 | Lands of Lore | Virgin | 9.44 |
| 4 | Ultima Underworld II | Origin | 9.42 |
| 5 | Might & Magic III | New World Computing | 9.41 |
| 6 | Might & Magic: Darkside of Xeen | New World Computing | 9.37 |
| 7 | Eye of the Beholder II | SSI | 9.34 |
| 8 | Might & Magic: Clouds of Xeen | New World Computing | 9.34 |
| 9 | Ultima VII | Origin | 9.25 |
| 10 | Arena: The Elder Scrolls | Bethesda | 9.19 |




## TOP SIMULATION GAMES




| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | X-Wing | LucasArts | 9.65 |
| 2 | Falcon 3.0 | Spectrum HoloByte | 9.59 |
| 3 | Hornet | Spectrum Holobyte | 9.47 |
| 4 | World Circuit | MicroProse | 9.44 |
| 5 | Aces of the Pacific | Dynamix | 9.38 |
| 6 | Indy Car Racing | Virgin/Papyrus | 9.33 |
| 7 | Fleet Defender | MicroProse | 9.27 |
| 8 | Comanche: Maximum Overkill | NovaLogic | 9.27 |
| 9 | Secret Weapons of the Luftwaffe | LucasArts | 9.19 |
| 10 | Stunt Island | Disney | 9.00 |

## TOP STRATEGY GAMES

| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | Master of Orion | MicroProse | 10.35 |
| 2 | Sim City 2000 | Maxis | 10.01 |
| 3 | Solitaire's Journey | QQP | 9.97 |
| 4 | Dune II | Virgin | 9.87 |
| 5 | Merchant Prince | QQP | 9.62 |
| 6 | Chessmaster 3000 | Software Toolworks | 9.32 |
| 7 | Syndicate | Electronic Arts | 9.21 |
| 8 | Hong Kong Mahjong Pro | Electronic Arts | 9.13 |
| 9 | The Lost Admiral | QQP | 9.05 |
| 10 | The Incredible Machine | Dynamix | 8.92 |

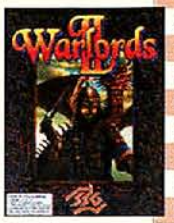



READER POLL #118

# TOP 100 GAMES

| | GAME | COMPANY | TYPE | SCORE |
|---|---|---|---|---|
| ⚔1 | Doom | Id Software | AC | 10.46 |
| ⚔2 | Master of Orion | MicroProse | ST | 10.35 |
| ⚔3 | Links 386 Pro | Access | SP | 10.33 |
| ⚔4 | Ultima Underworld | Origin | RP | 10.22 |
| ⚔5 | Warlords II | SSG | WG | 10.07 |
| ⚔6 | Day of the Tentacle | LucasArts | AD | 10.03 |
| 7 | Sim City 2000 | Maxis | ST | 10.01 |
| 8 | Wing Commander II | Origin | AC | 10.00 |
| 9 | Solitaire's Journey | QQP | ST | 9.97 |
| 10 | Monkey Island 2: Le Chuck's Revenge | LucasArts | AD | 9.91 |
| 11 | Dune II | Virgin | ST | 9.87 |
| 12 | Front Page Sports Football Pro | Dynamix | SP | 9.82 |
| 13 | Indiana Jones: Fate of Atlantis | LucasArts | AD | 9.79 |
| 14 | V for Victory: Velikiye Luki | Three-Sixty Pacific | WG | 9.73 |
| 15 | Carriers at War Construction Kit | SSG | WG | 9.68 |
| 16 | The Perfect General | QQP | WG | 9.67 |
| ⚔17 | X-Wing | LucasArts | SI | 9.65 |
| 18 | Gabriel Knight | Sierra | AD | 9.64 |
| 19 | Betrayal at Krondor | Dynamix | RP | 9.63 |
| | V for Victory: Utah Beach | Three-Sixty Pacific | WG | 9.63 |
| 21 | Merchant Prince | QQP | ST | 9.62 |
| 22 | Falcon 3.0 | Spectrum HoloByte | SI | 9.59 |
| 23 | V for Victory: Market Garden | Three-Sixty Pacific | WG | 9.58 |
| 24 | Quest for Glory III | Sierra | AD,RP | 9.56 |
| 25 | Sherlock Holmes CD I | Viacom | AD | 9.55 |
| | Wolfenstein 3-D | Id Software | AC | 9.55 |
| 27 | Conquered Kingdoms | QQP | WG,ST | 9.53 |
| 28 | War in Russia | SSI | WG | 9.49 |
| 29 | Hornet | Spectrum Holobyte | SI | 9.47 |
| 30 | NHLPA Hockey | Electronic Arts | SP | 9.45 |
| 31 | Lands of Lore | Virgin | RP | 9.44 |
| | World Circuit | MicroProse | SI | 9.44 |
| 33 | Ultima Underworld II | Origin | RP | 9.42 |
| 34 | Might & Magic III | New World Computing | RP | 9.41 |
| 35 | Aces of the Pacific | Dynamix | SI | 9.38 |
| 36 | Might & Magic: Darkside of Xeen | New World Computing | RP | 9.37 |
| 37 | Pacific War | SSI | WG | 9.34 |
| | Sam & Max Hit The Road | LucasArts | AD | 9.34 |
| | Might & Magic: Clouds of Xeen | New World Computing | RP | 9.34 |
| | Eye of the Beholder II | SSI | RP | 9.34 |
| 41 | Star Control II | Accolade | AD,AC | 9.33 |
| | Indy Car Racing | Virgin/Papyrus | SI | 9.33 |
| 43 | The Seventh Guest | Virgin | AD | 9.32 |
| | Chessmaster 3000 | Software Toolworks | ST | 9.32 |
| 45 | Comanche: Maximum Overkill | NovaLogic | SI | 9.27 |
| | Privateer | Origin | AC | 9.27 |
| | Jack Nicklaus Signature Golf | Accolade | SP | 9.27 |
| | Fleet Defender | MicroProse | SI | 9.27 |
| 49 | Ultima VII | Origin | RP | 9.25 |
| 50 | V for Victory: Gold Juno Sword | Three-Sixty Pacific | WG | 9.24 |

## TOP WARGAMES




| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | Warlords II | SSG | 10.07 |
| 2 | V for Victory: Velikiye Luki | Three-Sixty Pacific | 9.73 |
| 3 | Carriers at War Construction Kit | SSG | 9.68 |
| 4 | The Perfect General | QQP | 9.67 |
| 5 | V for Victory: Utah Beach | Three-Sixty Pacific | 9.63 |
| 6 | V for Victory: Market Garden | Three-Sixty Pacific | 9.58 |
| 7 | Conquered Kingdoms | QQP | 9.53 |
| 8 | War in Russia | SSI | 9.49 |
| 9 | Pacific War | SSI | 9.34 |
| 10 | V for Victory: Gold Juno Sword | Three-Sixty Pacific | 9.24 |

## TOP ACTION GAMES




| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | Doom | Id Software | 10.46 |
| 2 | Wing Commander II | Origin | 10.00 |
| 3 | Wolfenstein 3-D | Id Software | 9.55 |
| 4 | Privateer | Origin | 9.27 |
| 5 | Lemmings | Psygnosis | 9.21 |
| 6 | Tetris Classic | Spectrum HoloByte | 9.14 |
| 7 | Oh, No! More Lemmings | Psygnosis | 8.92 |
| 8 | The Horde | Crystal Dynamics | 8.85 |
| 9 | Prince of Persia 2 | Broderbund | 8.60 |
| 10 | Out of this World | Interplay | 8.57 |

## TOP SPORTS GAMES




| | GAME | COMPANY | SCORE |
|---|---|---|---|
| 1 | Links 386 Pro | Access | 10.33 |
| 2 | Front Page Sports Football Pro | Dynamix | 9.82 |
| 3 | NHLPA Hockey | Electronic Arts | 9.45 |
| 4 | Jack Nicklaus Signature Golf | Accolade | 9.27 |
| 5 | Hardball III | Accolade | 9.16 |
| 6 | Tony La Russa Baseball II | SSI | 8.78 |
| 7 | NFL Pro League Football | Micro Sports | 8.54 |
| 8 | The Games: Winter Challenge | Accolade | 8.50 |
| 9 | 4-D Boxing | Electronic Arts | 8.37 |
| 10 | Wayne Gretzky Hockey III | Bethesda | 8.30 |

The Poll is based on reader survey cards from two issues prior to publication. Data is archived from more than 100 games, so the Top 100 is likely to contain titles which were not listed on the active reader survey card, and the Top 10 lists may contain games which scored below the Top 100. Also, every title listed on the survey card may not appear in the Top 100, either because they did not score high enough or because of an insufficient number of responses on a particular game (usually due to a title's distribution delays or low initial retail penetration).

| | | | | |
|---|---|---|---|---|
| 51 | Lemmings | Psygnosis | AC,ST | 9.21 |
| | Syndicate | Electronic Arts | ST,AC | 9.21 |
| 53 | Lost Files of Sherlock Holmes | Electronic Arts | AD | 9.20 |
| 54 | Arena: The Elder Scrolls | Bethesda | RP | 9.19 |
| | Secret Weapons of the Luftwaffe | LucasArts | SI | 9.19 |
| 56 | King's Quest VI: Heir Today... | Sierra | AD | 9.17 |
| 57 | Hardball III | Accolade | SP | 9.16 |
| 58 | Tetris Classic | Spectrum HoloByte | AC | 9.14 |
| 59 | Hong Kong Mahjong Pro | Electronic Arts | ST | 9.13 |
| 60 | The Castle of Dr. Brain | Sierra | AD | 9.11 |
| 61 | Eye of the Beholder | SSI | RP | 9.10 |
| | Wizardry VII: Crusaders of Savant | Sir-Tech | RP | 9.10 |
| 63 | The Dagger of Amon Ra | Sierra | AD | 9.09 |
| 64 | Ultima VII: Part Two Serpent Isle | Origin | RP | 9.08 |
| 65 | Les Manly in: Lost in L.A. | Accolade | AD | 9.06 |
| 66 | Bane of the Cosmic Forge | Sir-Tech | RP | 9.05 |
| | Quest for Glory I (VGA) | Sierra | AD,RP | 9.05 |
| | The Lost Admiral | QQP | ST | 9.05 |
| 69 | Eric the Unready | Legend | AD | 9.04 |
| | Empire Deluxe | New World Computing | WG | 9.04 |
| | Conquests of the Longbow | Sierra | AD | 9.04 |
| 72 | Police Quest 3 | Sierra | AD | 9.01 |
| 73 | Stunt Island | Disney | SI | 9.00 |
| | Battles of Destiny | QQP | WG,ST | 9.00 |
| 75 | Aces Over Europe | Dynamix | SI | 8.99 |
| 76 | Space Quest IV | Sierra | AD | 8.98 |
| | Pagan Ultima VIII | Origin | RP,AC | 8.98 |
| | Western Front | SSI | WG | 8.98 |
| 79 | Carriers At War | SSG | WG | 8.97 |
| 80 | The Adventures of Willy Beamish | Dynamix | AD | 8.96 |
| | Freddy Pharkas Frontier Pharmacist | Sierra | AD | 8.96 |
| 82 | Alone in the Dark | I-Motion | AD | 8.95 |
| | Gunship 2000 | MicroProse | SI | 8.95 |
| 84 | Clash of Steel | SSI | WG | 8.94 |
| 85 | The Incredible Machine | Dynamix | ST | 8.92 |
| | Carriers at War II | SSG | WG | 8.92 |
| | F-117A | MicroProse | SI | 8.92 |
| | Oh, No! More Lemmings | Psygnosis | AC,ST | 8.92 |
| 89 | The Island of Dr. Brain | Sierra | ST | 8.91 |
| 90 | Chuck Yeager's Air Combat | Electronic Arts | SI | 8.87 |
| 91 | The Horde | Crystal Dynamics | AC,ST | 8.85 |
| 92 | Star Trek: Judgment Rites | Interplay | AD | 8.84 |
| 93 | Indianapolis 500 | Electronic Arts | SI | 8.83 |
| 94 | Spellcasting 301: Spring Break | Legend | AD | 8.81 |
| 95 | Rex Nebular | MicroProse | AD | 8.80 |
| 96 | Gateway to the Savage Frontier | SSI | RP | 8.79 |
| 97 | Tony La Russa Baseball II | SSI | SP | 8.78 |
| | Populous II | Electronic Arts | ST | 8.78 |
| | Hoyle Book of Games, Vol. 3 | Sierra | ST | 8.78 |
| | High Command | Three-Sixty Pacific | WG | 8.78 |

Games on unnumbered lines have scores equal to the line above. ✱ = Top game of type. Dark Red = New Game, AD = Adventure, RP = Role Playing, SI = Simulation, ST = Strategy, WG = Wargame, AC = Action, SP = Sports

# The Computer Gaming World Poll

A MONTHLY SURVEY OF THE READERS OF COMPUTER GAMING WORLD

# PATCHES

Computer game programs have grown so massive and the number of hardware configurations has become so huge that incompatibilities and glitches are frustratingly common. Patches for buggy programs have become the fastest fix.

Ziff NET These patches can be downloaded from ZiffNet, both on CompuServe and on Prodigy, except where indicated. On CompuServe, go to Computer Gaming World's own Forum, GO GAMEWORLD, Library 2, The Patch File. To sign up, call (800) 848-8990.

On Prodigy, jump "ZiffNet" and Search by Title for the patches listed here. Or, Search by Category to browse the entire games library.

These patches can also be downloaded from other on-line services, from software publishers' BBSs, or directly from the publisher. We urge publishers to keep us informed of the latest patches for their games. Red indicates new files.

**AEGIS Patch:** Eliminates the Electronic Book crash. 4/28/94.

**Air Warrior V1.13 Update:** New execute files, fixes several problems. 3/1/94

**Arena V1.04 Update:** Fixes several map, music, scrolling and magic problems. Provides new hot keys and allows you to sell magic items and delete spells. Particularly helpful for 386 machine users. 3/1/94

**Bane of the Cosmic Forge Patch:** Replacement file for players who get a divide overflow when starting the game. 3/23/94

**Comanche: Maximum Overkill Update:** Includes several hardware fixes, particularly for the Pentium and Diamond Stealth Pro. Not available on ZiffNet. 1/27/94

**CyberRace CD-ROM V1.2 Update:** Lowers base memory requirements, fixes save game problems and joystick difficulties. 1/20/94

**Diamond Dreams Upgrade:** Fixes all known bugs, and features greatly improved AI for computer manager strategies. 3/29/94

**Falcon 1.02 Mac Upgrade:** Fixes sound problems on Mac AVs. 3/20/94

**Fleet Defender V1.2 Upgrade:** Latest version of MicroProse flight sim. 5/6/94

**Gobliins CD-ROM Patch:** Fixes sound card and CD-ROM driver problems. 3/1/94

**The Horde V1.1 Revision:** Now supports Media Vision Pro Audio sound cards. Fixes lockups on some Sony drives, dead knights who don't disappear after snowball hits, and slows down the end credits. 4/28/94

**Hornet Patch:** Fixes many bugs and adds new features to Spectrum HoloByte's flight sim. 2/07/94

**IndyCar Racing V1.02:** Fixes several sound problems, as well as more minor corrections. 3/16/94

**IndyCar Racing Patch:** Allows use of the Gravis Ultrasound Card. 3/20/94

**IndyCar Racing Modem Patch:** Cleans up difficulties with modem play, and fixes scrolling menus for steering devices with no y-axis. 4/7/94

**Jutland V1.1 Upgrade:** Allows non-penetrating shells, adds more graphics, runs smoother, and most significantly, includes time compression. 3/30/94.

**Jutland Patch:** The game will now recognize different sound card addresses, rather than just the default 220 address. 5/3/94

**Lands Of Lore CD-ROM V1.22 Upgrade:** Fixes lockup problems on fast machines, allows retrieval of Dawn's key and allows use of Waveblaster/Soundblaster 16 combo. 3/7/94

**Lands of Lore Floppy V1.23 Upgrade:** Fixes "Dawn's Key" problem and Pentium lockups when choosing a character. 4/28/94

**Legends of Kyrandia V1.3 Upgrade:** Solves lockups and corrects phrasing used by the characters. 2/04/94

**Links 386 Pro Version 1.21:** Corrects several major and minor bugs. 1/28/94

**Lost in Time CD-Rom Patch:** Fixes problems with several CD drives and Sound Blaster-compatible sound cards. 2/09/94

**Master of Orion V1.3:** Tougher opponents, better play balance, and numerous combat tweaks. 1/06/94

**Merchant Prince Update:** Newest version of QQP's strategy game. 3/11/94

**MicroProse Sound Drivers:** New AdLib sound drivers for many older games which had problems running with 486 and Pentium machines. 4/7/94

**Mortal Kombat PC Update:** Improves sound card support, fixes crash bugs, and requires less conventional memory. 1/21/94.

**Nomad Patch:** Gets rid of inventory bug for trade. 3/1/94

**Police Quest 4 Patch:** Fixes all known problems and speeds up restoration of saved games. Disk version only. 4/5/94

**Quest For Glory 4 Patch:** Corrects all known bugs. 2/17/94

**Rally V1.1 Upgrade:** Fixes joystick calibration and other problems. 3/24/94

**Ravenloft 1.1 Upgrade:** Latest version from SSI, floppy and CD-ROM. 4/29/94

**Red Baron Patch:** Configuration fix for IBM only. 3/29/94

**Seawolf Patch:** Allows 16-bit Sound Blaster sound effects and music. 3/30/94

**Shanghai II V1.05 Update (Mac):** Fixes tournament crash bug. 3/24/94

**Sierra SB Patch:** 486 users may now use Sound Blaster with Police Quest 3, Space Quest 1 VGA, Leisure Suit Larry 1-5 and Hoyle's 3 games. 4/18/94

**SimCity2000 V1.1 Update (Mac):** Latest version, it fixes the budget problem, among others. 3/1/94

**Subwar 2050 V2.02 Update:** Corrects cursor drift, time and date problem. 4/28/94

**Terminator Rampage Patch:** Allows Pentium users to play the game. 3/8/94

**TFX Patch UK V2.0 Upgrade:** Fixes bugs; makes UK version equal to USA V 2.0, including several new features, but only works if you downloaded first patch as well. 2/24/94

**Tony La Russa Baseball 2 Patch:** Fixes stadium lockups. 5/3/94

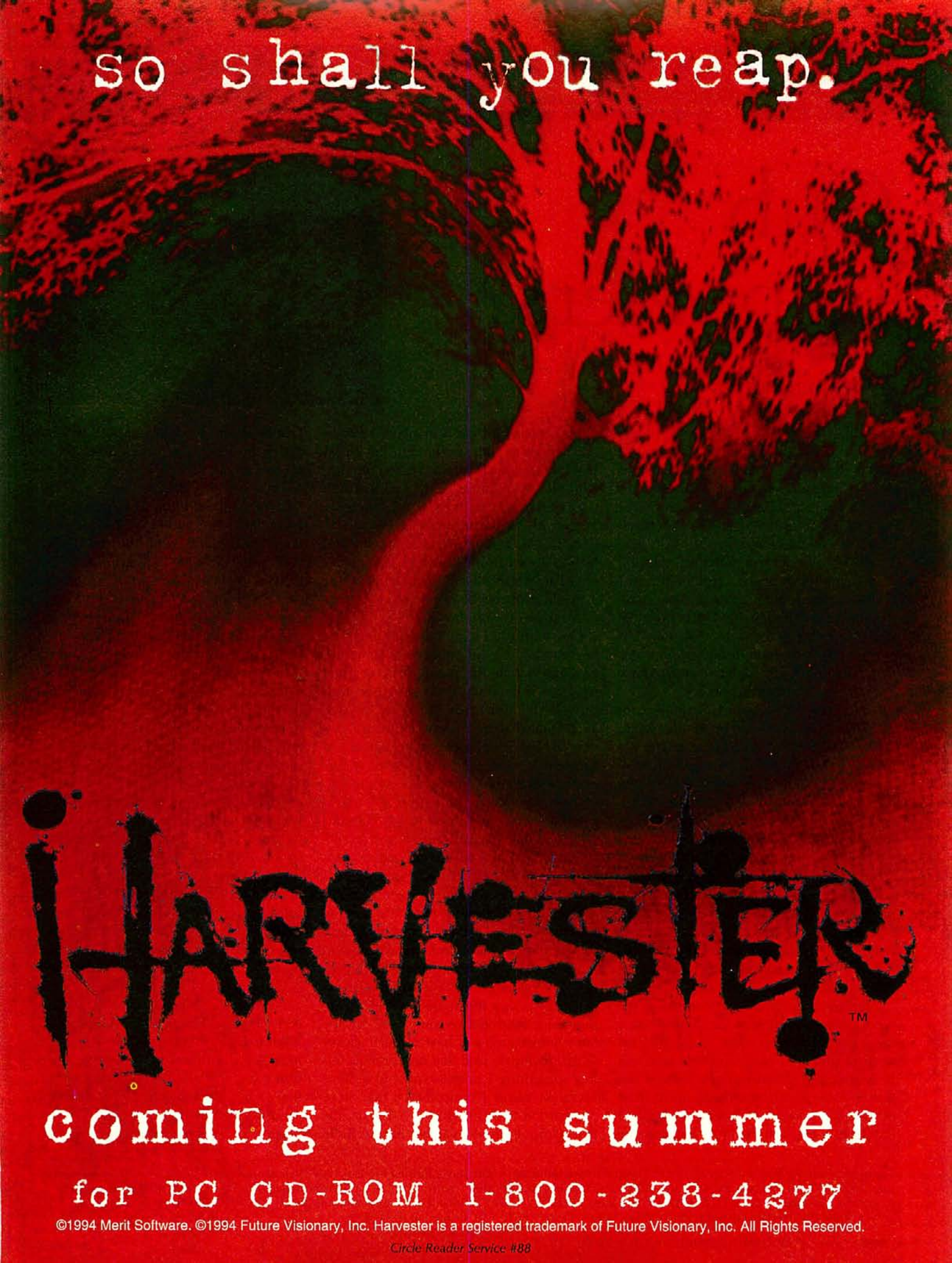
**Ultima 8 Patch:** Fixes AdLib problem with some machines. 4/15/94

**Unnecessary Roughness Revision:** Changes graphics, avoids lock-ups, and allows use of Sound Blaster. Team stats are actually used, hand-offs work correctly, and players do not vanish when tackling. CD-ROM now loads properly. 3/8/94

**Victory At Sea V1.01 Upgrade:** Corrects numerous problems with the initial release. 3/14/94

**War in Russia V1.1 Upgrade:** Adjusts game mechanics and fixes minor bugs. 2/08/94

**WW2 Battles Of The South Pacific:** The latest upgrade for QQP's naval wargame. 3/11/94.




©1994 Merit Software. ©1994 Future Visionary, Inc. Harvester is a registered trademark of Future Visionary, Inc. All Rights Reserved.

Circle Reader Service #88

# Cub Reporters?

**by Ernie Ryne Santos**



AP/Wide World Photos

My name is Ernie and...I'm a Cubs fan. There, I've said it. If we were behind by 12 runs in the bottom of the 9th, I'd still be sitting in the bleachers praying for the wind to start blowing out. Like the late songwriter, I want to be buried at Wrigley Field, between games of a doubleheader.

So, it's no wonder that, with the Cubbies in their longest home losing streak in history, I decided to make that pilgrimage down Addison Street to the House that Chicle Built, the sacred breeding ground for "Holy Cow!" in order to provide enough fan support that our announcer would have to commit Harry Carey or something of the sort.

I informed all my usual Chicago sources that I'd be at Wrigley Field in my usual attire: the bag for all seasons that I wear as The Rumor Guy. I entered the main gate, part of the dynamic human wall flowing through the turnstiles. It reminded me of the new TETRIS-style game that **Spectrum-HoloByte** is about to publish. The game was originally called THE WALL in Japan, but it's going to be called BREAKTHROUGH in the U.S. The game starts with a multi-colored "Berlin Wall" and requires you to systematically remove colored blocks until the entire wall is broken down. I call it LITTLE BRICK OUT (in honor of the old Apple II game) requiring strategy instead of reflexes.

I bought a program and nodded to the vendor in a knowing way. He always wrote a hot game rumor on page 13 for me. Instead of smiling, he did a double take and looked at the crowd walking toward the stands. I saw another baghead up in front of me and immediately realized what had happened. The vendor had mistaken the other baghead for me. I grabbed the ordinary program and ran through the crowd like I was in a life-or-death version of a live LODE RUNNER game. "And Jeff Tunnell thinks his new LODE RUNNER: A LEGEND RETURNS will be the ultimate challenge!" I thought, "Wait till his job is on the line and he has to scramble through a capacity crowd at Wrigley!" I admitted to myself that it would probably be an awesome experience on the *computer*, however.

Out of breath, I caught up with the other baghead and got his attention. I offered to pay him double the price of the original program if he would trade programs with me. He did and I turned quickly to page 13. Scribbled across a picture of Ryne Sandberg in black felt pen was a note that said Al Lowe of LEISURE SUIT LARRY fame is currently working on a new series called CAPITOL PUNISHMENT and that the first installment was supposed to be "Bill and Hillary's Whitewater Adventure."

Suddenly, I noticed that there were even more bagheads in the crowd. With horror, I feared that other computer game magazines had reporters dressing up like me in order to steal my rumors. That, I reasoned would be a trick as dirty as your characters may have to pull in DOG EAT DOG, the game of office politics to be published by **Trilobyte**. The game began its design life at **Disney** with something of a '50s romance comic look, but the latest incarnation will have a much slicker look. I finally decided that my paranoia was like something I would expect in a Steve Meretzky game. I remembered that Steve was hard at work on HODGE-IN-PODGE, the first release from new game company **Boffo Games** (in conjunction with **MediaVision**), and, in his honor I quickly dismissed the idea of copycat competition.

I reached the bleachers and, there she was, the source of sources—the most beautiful woman to ever don a Cubs hat. Unfortunately, she was surrounded by a half-dozen bagheads. Worse, she was giving all of them the rumor about FAR SEAS, a computer version of an original *Strategy & Tactics* game based on WWI naval warfare to be published by **Decision Games**, a small boardgame company. I suddenly wished I was in the middle of **Argonaut**'s upcoming CREATURE SHOCK, a new DOOM-like, first-person perspective science fiction shooter to be published in the U.S. by **Virgin**. That way, I could have lasered my way to her side without any opposition.

As it was, I merely pointed toward another spectator and innocently asked, "Is that Bull Durham?" As the bagheads rushed off to get his autograph, I sat down beside her to watch the game and hear her whisper the latest secrets in my ear. She managed to tell me about COMMAND HQ II (working title), being designed for **MicroProse** by Robert E. Lee. She said it would feature 4-way and, *possibly*, network play. Naturally, many of the later improvements to the original game, including a map builder and random map generator, will be included in the new design. She also told me that **Avalon Hill**'s BEYOND SQUAD LEADER has now been bumped to January of '95. I don't know what else she said because that's when the other bagheads discovered the other guy wasn't Leon Durham and headed back to hit me out of the park.

Computer Gaming World (ISSN 0744-6667) is published monthly by **Ziff-Davis Publishing Co.**, One Park Avenue, New York, NY 10016. Subscription rate is $28.00 for a one year subscription (12 issues). Canada and all other countries add $11.00 for postage. Postmaster: Send address changes to Computer Gaming World, P.O. Box 57167, Boulder, CO 80322-7167.Canadian GST registration number is R123669673. Second-class postage paid at New York, NY 10016 and additional mailing offices. Permit #672-910. Printed in the U.S.A.

FROM THE CREATORS OF THE AWARD-WINNING *WOLFENSTEIN 3-D*™

# DOOM™

"The graphics are superb, with lighting effects and art that could only come from dark and demented minds."
Computer Gaming World

"You want action? You want gunplay? You want gore? ...DOOM has it all."
PC Entertainment

"...if you have saliva, prepare to drool now.""...an absolute must-have for PC action fans."
Electronic Games

## WANT TO BE A HERO? GO TO HELL!

DOOM is a lightning-fast virtual reality adventure where you're the toughest space trooper ever to suck vacuum. Scientists stationed on a far-off moonbase have opened a gateway to Hell, releasing a monster-infested holocaust upon the universe. You're the last marine remaining on the base after the invasion. Your mission is to survive!

- Four-player combat over network
- Two-player action over modem
- Incredibly detailed 3-D world
- Blood-curdling stereo sound effects
- Hair raising demonic denizens of Hell
- Awesome foe-fraggin' weapons



## Call 1-800-IDGAMES

Order the entire DOOM trilogy for $40.00 or get episode one, *Knee-Deep in the Dead*™ for the cost of shipping and handling. Or download episode one from Software Creations™ BBS.
(508) 368-4137 @ 2400-14.4K baud
Canadian customers call 1-800-661-7383.

id SOFTWARE INC

Requires a 386DX PC compatible or better; hard disk drive; VGA graphics; 4 Megabytes of memory. A 486 is recommended. Multiplayer options require a network which uses the IPX protocol, a modem, or serial link. Digitized sound effects require a 100% Sound Blaster™ compatible card, Gravis Ultra Sound™, or Pro Audio Spectrum™-16.
DOOM is a trademark of id Software, ©1993. Other trademarks are the property of their respective companies.

# SYSTEM SHOCK

A LOOKINGGLASS TECHNOLOGIES™ GAME

## REAL WORLD. REAL TIME. REAL TERROR.



A FIRST PERSON FIGHT TO THE DEATH IN THE DEPTHS OF SPACE.











Chaos reigns aboard the space station *Citadel*. Crew members are now horrible genetic mutations. Cyborg security robots roam the corridors bent on destruction. At the heart of it all is SHODAN, the ruthless super-computer that has seized control of all station operations. Will you be able to fight your way through and destroy SHODAN – from within?

- Explore a totally immersive 3-D world with sophisticated physics. Jump, lean around corners, climb ledges, crawl through shafts – even fly with rocket boots – all from a lightning-fast first-person perspective.
- Tailor the gameplay to your favorite style. Change difficulty levels for combat, cyberspace, puzzles or plot.
- "Jack in" to the computer itself to steal information, hack security systems and grapple with cyber-creatures enslaved to the maniacal SHODAN.

For a great game experience, use an Intel DX2™, Intel DX4™ or Pentium™ processor-based system. For additional literature on Intel products, call 1-800-756-8766.

ORIGIN®
We create worlds®
An Electronics Arts® Company
P.O. BOX 161750 AUSTIN, TX 78716

Actual screens may vary. A Stand-Alone Game. Made in U.S.A.

Software ©1994, LookingGlass Technologies. © 1994, ORIGIN Systems, Inc. System Shock is a trademark of ORIGIN Systems, Inc. Origin and We create worlds are registered trademarks of ORIGIN Systems, Inc. Electronic Arts is a registered trademark of Electronic Arts. LookingGlass Technologies is a trademark of LookingGlass Technologies.